

 **ANALYTICAL REPORT****PREPARED FOR**

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AECOM

1001 Bishop Street  
Honolulu HI 96813

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**JOB DESCRIPTION**

Red Hill - AFFF Assessment Sampling

**JOB NUMBER**

580-121247-1

# Eurofins Seattle

## Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

## Authorization



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# Table of Contents

Cover Title Page . . . . .	1
Data Summaries . . . . .	5
Definitions . . . . .	5
Case Narrative . . . . .	6
Detection Summary . . . . .	7
Client Sample Results . . . . .	8
Default Detection Limits . . . . .	9
QC Sample Results . . . . .	10
QC Association . . . . .	11
Chronicle . . . . .	12
Certification Summary . . . . .	13
Method Summary . . . . .	14
Sample Summary . . . . .	15
Manual Integration Summary . . . . .	16
Reagent Traceability . . . . .	19
COAs . . . . .	20
Organic Sample Data . . . . .	32
GC Semi VOA . . . . .	32
Method 8015C - DAI Glycols . . . . .	32
Method 8015C - DAI Glycols QC Summary . . . . .	33
Method 8015C - DAI Glycols Sample Data . . . . .	43
Standards Data . . . . .	58
Method 8015C - DAI Glycols ICAL Data . . . . .	58
Method 8015C - DAI Glycols CCAL Data . . . . .	94
Raw QC Data . . . . .	118
Method 8015C - DAI Glycols Blank Data . . . . .	118

# Table of Contents

Method 8015C - DAI Glycols LCS/LCSD Data .....	124
Method 8015C - DAI Glycols MS/MSD Data .....	138
Method 8015C - DAI Glycols Run Logs .....	144
Method 8015C - DAI Glycols Prep Data .....	147
<b>Subcontracted Data .....</b>	<b>150</b>
<b>Shipping and Receiving Documents .....</b>	<b>151</b>
Client Chain of Custody .....	152

# Definitions/Glossary

Client: AECOM  
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-121247-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

**CASE NARRATIVE**  
**Client: AECOM**  
**Project: Red Hill - AFFF Assessment Sampling**  
**Report Number: 580-121247-1**

**REVISION 2: January 23, 2023**

The report was revised to narrate that the MS/MSD was not spiked with the target analyte for 2-(2-BUTOXYETHOXY)ETHANOL. See full note in the analyte section below.

**REVISION 1: DECEMBER 30, 2022**

Report revised to correct the client IDs for samples 1, 4, and 5 per client revised COC.

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

Following DoD QSM guidelines, manual integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure, Acceptable Manual Integration Practices, SOP No.: Q-S-002. The reason(s) for manual integration have been documented on the affected chromatogram(s), which is/are provided in the raw data package. The raw data also includes the original chromatogram(s) prior to any manual integration being performed. Manual integrations are detailed in the manual integration summary forms following this narrative.

It should be noted that samples with elevated Limits of Quantitation (LOQs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the LOQs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

**RECEIPT**

Five samples were received on 12/14/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.1° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

**GLYCOLS - 2-(2-BUTOXYETHOXY)ETHANOL**

**Samples AF-RHMW16-WGN01B-2212W1 (580-121247-1), AF-RHMW06-WGN01B-2212W1 (580-121247-2), AF-RHMW06-WQEB01-2212W1 (580-121247-3), AF-RHMW10-WGN01B-2212W1 (580-121247-4) and AF-RHMW12A-WGN01B-2212W1 (580-121247-5) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI.** The samples were analyzed on 12/16/2022 and 12/17/2022.

Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for analytical batch 680-755535. The associated laboratory control sample (LCS/LCSD) met acceptance criteria.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: AECOM  
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-121247-1

**Client Sample ID: AF-RHMW16-WGN01B-2212W1**

**Lab Sample ID: 580-121247-1**

No Detections.

**Client Sample ID: AF-RHMW06-WGN01B-2212W1**

**Lab Sample ID: 580-121247-2**

No Detections.

**Client Sample ID: AF-RHMW06-WQEB01-2212W1**

**Lab Sample ID: 580-121247-3**

No Detections.

**Client Sample ID: AF-RHMW10-WGN01B-2212W1**

**Lab Sample ID: 580-121247-4**

No Detections.

**Client Sample ID: AF-RHMW12A-WGN01B-2212W1**

**Lab Sample ID: 580-121247-5**

No Detections.

This Detection Summary does not include radiochemical test results.

# Client Sample Results

Client: AECOM  
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-121247-1

**Client Sample ID: AF-RHMW16-WGN01B-2212W1**

**Lab Sample ID: 580-121247-1**

Date Collected: 12/10/22 15:30

Matrix: Water

Date Received: 12/14/22 13:33

**Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			12/17/22 23:06	1

**Client Sample ID: AF-RHMW06-WGN01B-2212W1**

**Lab Sample ID: 580-121247-2**

Date Collected: 12/08/22 15:25

Matrix: Water

Date Received: 12/14/22 13:33

**Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			12/16/22 21:16	1

**Client Sample ID: AF-RHMW06-WQEB01-2212W1**

**Lab Sample ID: 580-121247-3**

Date Collected: 12/08/22 17:10

Matrix: Water

Date Received: 12/14/22 13:33

**Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			12/16/22 21:38	1

**Client Sample ID: AF-RHMW10-WGN01B-2212W1**

**Lab Sample ID: 580-121247-4**

Date Collected: 12/11/22 13:35

Matrix: Water

Date Received: 12/14/22 13:33

**Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			12/17/22 23:28	1

**Client Sample ID: AF-RHMW12A-WGN01B-2212W1**

**Lab Sample ID: 580-121247-5**

Date Collected: 12/09/22 21:45

Matrix: Water

Date Received: 12/14/22 13:33

**Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			12/17/22 23:51	1

# Default Detection Limits

Client: AECOM

Job ID: 580-121247-1

Project/Site: Red Hill - AFFF Assessment Sampling

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## Method: 8015C GLY - Glycols- Direct Injection (GC/FID)

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Analyte	LOQ	DL	Units
2-(2-Butoxyethoxy)ethanol	5.0	1.1	mg/L

# QC Sample Results

Client: AECOM  
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-121247-1

## Method: 8015C GLY - Glycols- Direct Injection (GC/FID)

**Lab Sample ID: MB 680-755535/13**  
**Matrix: Water**  
**Analysis Batch: 755535**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			12/16/22 20:31	1

**Lab Sample ID: LCS 680-755535/6**  
**Matrix: Water**  
**Analysis Batch: 755535**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	20.0	22.3		mg/L		112	50 - 150

**Lab Sample ID: LCSD 680-755535/7**  
**Matrix: Water**  
**Analysis Batch: 755535**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	20.0	23.8		mg/L		119	50 - 150	7	50

**Lab Sample ID: 580-121247-2 MS**  
**Matrix: Water**  
**Analysis Batch: 755535**

**Client Sample ID: AF-RHMW06-WGN01B-2212W1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	3.0	U M	20.0	3.0	U J1	mg/L		0	50 - 150

**Lab Sample ID: 580-121247-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 755535**

**Client Sample ID: AF-RHMW06-WGN01B-2212W1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	3.0	U M	20.0	3.0	U J1	mg/L		0	50 - 150	NC	50

**Lab Sample ID: MB 680-755698/10**  
**Matrix: Water**  
**Analysis Batch: 755698**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			12/17/22 19:59	1

**Lab Sample ID: LCS 680-755698/1006**  
**Matrix: Water**  
**Analysis Batch: 755698**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	20.0	22.8		mg/L		114	50 - 150

**Lab Sample ID: LCSD 680-755698/7**  
**Matrix: Water**  
**Analysis Batch: 755698**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	20.0	20.7		mg/L		103	50 - 150	10	50

# QC Association Summary

Client: AECOM  
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-121247-1

## GC Semi VOA

### Analysis Batch: 755535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-121247-2	AF-RHMMW06-WGN01B-2212W1	Total/NA	Water	8015C GLY	
580-121247-3	AF-RHMMW06-WQEB01-2212W1	Total/NA	Water	8015C GLY	
MB 680-755535/13	Method Blank	Total/NA	Water	8015C GLY	
LCS 680-755535/6	Lab Control Sample	Total/NA	Water	8015C GLY	
LCSD 680-755535/7	Lab Control Sample Dup	Total/NA	Water	8015C GLY	
580-121247-2 MS	AF-RHMMW06-WGN01B-2212W1	Total/NA	Water	8015C GLY	
580-121247-2 MSD	AF-RHMMW06-WGN01B-2212W1	Total/NA	Water	8015C GLY	

### Analysis Batch: 755698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-121247-1	AF-RHMMW16-WGN01B-2212W1	Total/NA	Water	8015C GLY	
580-121247-4	AF-RHMMW10-WGN01B-2212W1	Total/NA	Water	8015C GLY	
580-121247-5	AF-RHMMW12A-WGN01B-2212W1	Total/NA	Water	8015C GLY	
MB 680-755698/10	Method Blank	Total/NA	Water	8015C GLY	
LCS 680-755698/1006	Lab Control Sample	Total/NA	Water	8015C GLY	
LCSD 680-755698/7	Lab Control Sample Dup	Total/NA	Water	8015C GLY	

# Lab Chronicle

Client: AECOM  
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-121247-1

**Client Sample ID: AF-RHMW16-WGN01B-2212W1**

**Lab Sample ID: 580-121247-1**

Date Collected: 12/10/22 15:30

Matrix: Water

Date Received: 12/14/22 13:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	755698	JCK	EET SAV	12/17/22 23:06

**Client Sample ID: AF-RHMW06-WGN01B-2212W1**

**Lab Sample ID: 580-121247-2**

Date Collected: 12/08/22 15:25

Matrix: Water

Date Received: 12/14/22 13:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	755535	JCK	EET SAV	12/16/22 21:16

**Client Sample ID: AF-RHMW06-WQEB01-2212W1**

**Lab Sample ID: 580-121247-3**

Date Collected: 12/08/22 17:10

Matrix: Water

Date Received: 12/14/22 13:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	755535	JCK	EET SAV	12/16/22 21:38

**Client Sample ID: AF-RHMW10-WGN01B-2212W1**

**Lab Sample ID: 580-121247-4**

Date Collected: 12/11/22 13:35

Matrix: Water

Date Received: 12/14/22 13:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	755698	JCK	EET SAV	12/17/22 23:28

**Client Sample ID: AF-RHMW12A-WGN01B-2212W1**

**Lab Sample ID: 580-121247-5**

Date Collected: 12/09/22 21:45

Matrix: Water

Date Received: 12/14/22 13:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	755698	JCK	EET SAV	12/17/22 23:51

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

# Accreditation/Certification Summary

Client: AECOM  
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-121247-1

## Laboratory: Eurofins Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2463	09-22-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015C GLY		Water	2-(2-Butoxyethoxy)ethanol

# Method Summary

Client: AECOM

Job ID: 580-121247-1

Project/Site: Red Hill - AFFF Assessment Sampling

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
8015C GLY	Glycols- Direct Injection (GC/FID)	SW846	EET SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

# Sample Summary

Client: AECOM

Job ID: 580-121247-1

Project/Site: Red Hill - AFFF Assessment Sampling

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-121247-1	AF-RHMW16-WGN01B-2212W1	Water	12/10/22 15:30	12/14/22 13:33
580-121247-2	AF-RHMW06-WGN01B-2212W1	Water	12/08/22 15:25	12/14/22 13:33
580-121247-3	AF-RHMW06-WQEB01-2212W1	Water	12/08/22 17:10	12/14/22 13:33
580-121247-4	AF-RHMW10-WGN01B-2212W1	Water	12/11/22 13:35	12/14/22 13:33
580-121247-5	AF-RHMW12A-WGN01B-2212W1	Water	12/09/22 21:45	12/14/22 13:33

## GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121247-1

SDG No.: \_\_\_\_\_

Instrument ID: CVGG2 Analysis Batch Number: 755296Lab Sample ID: IC 680-755296/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 12/15/22 13:40 Lab File ID: 22GL15007.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	7.82	Baseline Smoothing	SWK1	12/15/22 18:33
Ethylene glycol	8.22	Baseline Smoothing	SWK1	12/15/22 18:33
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:27

Lab Sample ID: IC 680-755296/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 12/15/22 14:03 Lab File ID: 22GL15008.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:28

Lab Sample ID: IC 680-755296/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 12/15/22 14:26 Lab File ID: 22GL15009.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:28

Lab Sample ID: ICIS 680-755296/10 Client Sample ID: \_\_\_\_\_Date Analyzed: 12/15/22 14:48 Lab File ID: 22GL15010.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	7.83	Baseline Smoothing	SWK1	12/15/22 18:31
Ethylene glycol	8.22	Baseline Smoothing	SWK1	12/15/22 18:31
2-(2-Butoxyethoxy)ethanol	9.49	Baseline Smoothing	SWK1	12/15/22 18:31
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:28

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121247-1

SDG No.: \_\_\_\_\_

Instrument ID: CVGG2 Analysis Batch Number: 755296

Lab Sample ID: IC 680-755296/11 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/22 15:11 Lab File ID: 22GL15011.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	7.84	Baseline Smoothing	SWK1	12/15/22 18:31
Ethylene glycol	8.22	Baseline Smoothing	SWK1	12/15/22 18:31
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:28

Lab Sample ID: IC 680-755296/12 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/22 15:34 Lab File ID: 22GL15012.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	7.82	Baseline Smoothing	SWK1	12/15/22 18:29
Ethylene glycol	8.22	Baseline Smoothing	SWK1	12/15/22 18:29
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:29

Lab Sample ID: ICV 680-755296/13 CCV Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/22 15:56 Lab File ID: 22GL15013.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:29

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121247-1

SDG No.: \_\_\_\_\_

Instrument ID: CVGG2 Analysis Batch Number: 755535

Lab Sample ID: 580-121247-2 Client Sample ID: AF-RHMW06-WGN01B-2212W1

Date Analyzed: 12/16/22 21:16 Lab File ID: 22GL16015.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	12/17/22 10:57

Lab Sample ID: 580-121247-3 Client Sample ID: AF-RHMW06-WQEB01-2212W1

Date Analyzed: 12/16/22 21:38 Lab File ID: 22GL16016.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	12/17/22 10:57

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121247-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG_Gly_CAL_00047	02/07/23		o2si, Lot 480919			(Purchased Reagent)	2,2'-Oxybisethanol	2000 ug/mL
							2-(2-Butoxyethoxy)ethanol	2000 ug/mL
							2-Butoxyethanol	2000 ug/mL
							4-Hydroxy-4-methyl-2-pentanone	2000 ug/mL
							Dipropylene Glycol Methyl Ether	2000 ug/mL
							Ethanol, 2-propoxy	2000 ug/mL
							Ethylene glycol	2000 ug/mL
							Propylene glycol	2000 ug/mL
SG_GLY_ISTD_00099	04/25/23		Agilent, Lot 0006670821			(Purchased Reagent)	n-Heptyl Alcohol	5000 ug/mL
SG_GlyICV_00056	05/04/23		o2si, Lot 454407			(Purchased Reagent)	2-(2-Butoxyethoxy)ethanol	2000 ug/mL

Reagent

---

**SG\_Gly\_CAL\_00047**



ISO/IEC 17025 Accredited  
Chemical Testing Lab  
Cert. No. 3031.01



ISO 17034 Accredited  
Reference Material Producer  
Cert. No. 3031.02

Rev 0

## Certificate of Analysis

Page 1 of 3

Catalog No.	Lot No.	Storage	Solvent	Date Received	Exp. Date
G34-120070-04	480919	≤ -10 °C	P/T Methanol		2-May-2024

### Description:

ISO 17034 -Custom Volatiles Mix,105-12, 2000 & 4,000 mg/L, 1 mL

### Container:

1 ml Ampule, Amber Glass

### Certified Values:

The certified value is based on gravimetric and volumetric preparation of this Certified Reference Material (CRM). This CRM has been confirmed by GC/MS, GC, HPLC, UPLC/HRAM-MS, UV/VIS, Enzymatic, and/or wet chemistry techniques using internally developed method(s) against independent source(s). The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2. The purity of neat materials not traceable to an ISO 17034:2016 accredited Reference Material Provider is traceable to internal analysis by GC, GC/MS, HPLC, Enzymatic, or wet chemistry techniques and compared to a National Metrological Institute such as NIST where feasible.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
2-butoxyethanol	111-76-2	99.6	311.9.2P	1986 ± 100 mg/L
diethylene glycol butyl ether	112-34-5	99.8	2323.7.2P	2008 ± 100 mg/L
propyl cellosolve	2807-30-9	99.9	1570.7.2P	1980 ± 100 mg/L
dipropylene glycol monomethyl ether	34590-94-8	99.7	2333.7.2P	2014 ± 100 mg/L
ethylene glycol	107-21-1	100	307.201.1P	1968 ± 99 mg/L
di(ethylene glycol)	111-46-6	99.5	309.7.2P	1994 ± 100 mg/L
tri(ethylene glycol)	112-27-6	99.9	310.7.2.1.1P	1974 ± 110 mg/L
4-Hydroxy-4-methyl-2-pentanone	123-42-2	98	2334.286.1P	1991 ± 110 mg/L
1,2-propanediol	57-55-6	99.5	306.9.3P	1998 ± 100 mg/L
tetraethylene glycol	112-60-7	98	3754.7.1P	3959 ± 200 mg/L

### Intended Uses:

This CRM is intended for use as a calibration standard or a quality control standard for chromatography equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH and ASTM methods.

Recommended storage container for ampuled products after opening is a 12 mm x 32 mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

# Certificate of Analysis

Page 2 of 3

Catalog No. G34-120070-04

Lot No. 480919

Expiration Date 2 -May-2024

$$\% \text{ Change} = 116192x^{-2.578} + 40.383e^{-0.03y}$$

where x = boiling point of the most volatile analyte in the mix (in degrees K)

y = boiling point of the solvent (in degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

## Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with National Institute of Standards and Technology (NIST) traceable weights (NIST Test Numbers 822/273070-06, 822/275141-07, 822/278993-10). Only calibrated Class A volumetric glassware and/or calibrated syringes were used to prepare this standard. Raw materials may have been checked for stoichiometry and purity prior to use. This standard has been analyzed against an independent source.

## Packaging and Storage:

The solution should be stored according to the following storage requirements:  $\leq -10$  °C

Once the product is opened, it should be transferred to a vial with minimum head space if the product was received in a sealed ampule.

## Glassware Calibration:

Only Class A glassware and/or calibrated syringes are used in the manufacture and quality control of standards. All glassware is calibrated using NIST traceable weights.

## Weights and Balance Calibration:

Weights used to perform daily checks on balances are calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to NIST. Balances are checked daily in accordance to procedure O2-LB-G-002. Balances are calibrated annually by an ISO/IEC 17025:2017 accredited metrology service.

## Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-011 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC 17025:2017 and ISO 17034:2016. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

## Hazardous Information:

Refer to MSDS.

## Calculation of Uncertainty:

The following equations are used to calculate the value of the expanded uncertainty:

$u = ku_c$  u = Expanded Uncertainty, k = the coverage factor at the 95% confidence level, k = 2,  $u_c$  = the combined uncertainty

$u_c = (u_{\text{char}}^2 + u_{\text{tran}}^2 + u_{\text{homo}}^2 + u_{\text{ls}}^2)^{1/2}$  where  $u_i$  are the individual uncertainty components for manufacturing, transportation, homogeneity, and shelf life. While no significant uncertainty was detected in the replicates, a minimum contribution to

Manufactured By:



Brian Stokes

3 -May-2022

Production Chemist I

Certified By:



Tyler Sherman

14 -Jun-2022

Quality Control Chemist I

Released By:



Susan Mathews

14 -Jun-2022

Quality Control Team Lead

7290B Investment Drive • North Charleston, SC 29418  
Phone: 866.272.0932 • Fax: 866.509.5146 www.o2si.com

# Certificate of Analysis

Catalog No. G34-120070-04

Lot No. 480919

Expiration Date 2 -May-2024

uncertainty was added for homogeneity and long term stability as described in ISO Guide 35:2017.

## Expiration Information:

The stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. Studies on the short term instability have determined no contribution to instability as observed on the concentration under controlled transportation conditions. This standard is guaranteed until 2-May-2024

## Quality Standard Documentation:

- ISO/IEC 17025:2017 "General Requirements for the Competence of Testing and Calibration" - Chemical Testing - Accredited A2LA Certificate Number 3031.01
- ISO 17034:2016 "General Requirements for the Competence of Reference Material Producers" - Reference Material Production - Accredited A2LA Certificate Number 3031.02

Manufactured By:



Brian Stokes

3 -May-2022

Production Chemist I

Certified By:



Tyler Sherman

14 -Jun-2022

Quality Control Chemist I

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Released By:



Susan Mathews

14 -Jun-2022

Quality Control Team Lead

Reagent

---

**SG\_GLY\_ISTD\_00099**

## Reference Material Certificate

**Product Name:** Custom Standard      **Lot Number:** 0006670821  
**Product Number:** CUS-6046      **Lot Issue Date:** 14-Mar-2022  
**Storage Conditions:** Store at Room Temperature (15° to 30°C).      **Expiration Date:** 30-Apr-2024

Component Name	CERTIFIED VALUES		CAS#	Analyte Lot
	Concentration	Expanded Uncertainty		
n-heptanol	5024	± 25 µg/mL	000111-70-6	RM04540

**Matrix:** methanol (methyl alcohol)

**Description:**

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

**Traceability:**

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

**Safety:**

Refer to the Safety Data Sheet on [www.agilent.com](http://www.agilent.com) for information regarding this analytical reference material.

**Intended Use:**

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

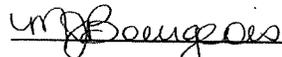
**Expiration of Certification:**

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

**Maintenance of Certification:**

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

**Sample lot approver:**



Monica Bourgeois  
QMS Representative



ISO 17034 Cert  
No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015  
Quality Management System. Cert# 951215321

Page: 2 of 2

[www.agilent.com/quality/](http://www.agilent.com/quality/)  
GSD-QA-015.1



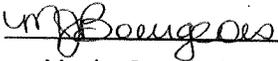
ISO 17025 Cert  
No. AT-1937

**Maintenance of Certification:**

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

---

**Sample lot approver:**

  
Monica Bourgeois  
QMS Representative



ISO 17034 Cert  
No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015  
Quality Management System. Cert# 951215321

Page: 2 of 2

[www.agilent.com/quality/](http://www.agilent.com/quality/)  
CSD-QA-015.1



ISO 17025 Cert  
No. AT-1937

Reagent

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**SG\_GlyICV\_00056**



ISO/IEC 17025 Accredited  
Chemical Testing Lab  
Cert. No. 3031.01



ISO 17034 Accredited  
Reference Material Producer  
Cert. No. 3031.02

Rev 0

## Certificate of Analysis

Page 1 of 3

Catalog No.	Lot No.	Storage	Solvent	Date Received	Exp. Date
G34-120070-04-SS	454407	≤ -10 °C	P/T Methanol		1-Jul-2023

### Description:

ISO 17034 -Custom Volatiles Mix,105-12, Second Source, 2000 & 4,000 mg/L, 1 mL

### Container:

1 ml Ampule, Amber Glass

### Certified Values:

The certified value is based on gravimetric and volumetric preparation of this Certified Reference Material (CRM). This CRM has been confirmed by GC/MS, GC, HPLC, UPLC/HRAM-MS, UV/VIS, Enzymatic, and/or wet chemistry techniques using internally developed method(s) against independent source(s). The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2. The purity of neat materials not traceable to an ISO 17034:2016 accredited Reference Material Provider is traceable to internal analysis by GC, GC/MS, HPLC, Enzymatic, or wet chemistry techniques and compared to a National Metrological Institute such as NIST where feasible.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
2-butoxyethanol	111-76-2	99.5	311.7.1.1S	1994 ± 100 mg/L
diethylene glycol butyl ether	112-34-5	99.8	2323.7.2.1S	1992 ± 100 mg/L
2-propoxyethanol	2807-30-9	99.5	1570.7.1S	1998 ± 110 mg/L
dipropylene glycol monomethyl ether	34590-94-8	99.7	2333.7.2.1S	1998 ± 100 mg/L
ethylene glycol	107-21-1	100	307.201.1.1S	2016 ± 100 mg/L
di(ethylene glycol)	111-46-6	99.9	309.7.1.1S	1998 ± 100 mg/L
tri(ethylene glycol)	112-27-6	99.9	310.7.3.1S	2010 ± 100 mg/L
4-Hydroxy-4-methyl-2-pentanone	123-42-2	98	2334.286.1.1S	2003 ± 110 mg/L
1,2-propanediol	57-55-6	99.6	306.370.1.1S	2004 ± 110 mg/L
tetraethylene glycol	112-60-7	98	3754.7.1.1S	4049 ± 200 mg/L

### Intended Uses:

This CRM is intended for use as a calibration standard or a quality control standard for chromatography equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH and ASTM methods.

Recommended storage container for ampuled products after opening is a 12 mm x 32 mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

# Certificate of Analysis

Catalog No. G34-120070-04-SS

Lot No. 454407

Expiration Date 1 -Jul-2023

$$\% \text{ Change} = 116192x^{-2.578} + 40.383e^{-0.03y}$$

where x = boiling point of the most volatile analyte in the mix (in degrees K)  
y = boiling point of the solvent (in degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

## Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with National Institute of Standards and Technology (NIST) traceable weights (NIST Test Numbers 822/273070-06, 822/275141-07, 822/278993-10). Only calibrated Class A volumetric glassware and/or calibrated syringes were used to prepare this standard. Raw materials may have been checked for stoichiometry and purity prior to use. This standard has been analyzed against an independent source.

## Packaging and Storage:

The solution should be stored according to the following storage requirements: ≤ -10 °C

Once the product is opened, it should be transferred to a vial with minimum head space if the product was received in a sealed ampule.

## Glassware Calibration:

Only Class A glassware and/or calibrated syringes are used in the manufacture and quality control of standards. All glassware is calibrated using NIST traceable weights.

## Weights and Balance Calibration:

Weights used to perform daily checks on balances are calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to NIST. Balances are checked daily in accordance to procedure O2-LB-G-002. Balances are calibrated annually by an ISO/IEC 17025:2017 accredited metrology service.

## Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-011 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC 17025:2017 and ISO 17034:2016. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

## Hazardous Information:

Refer to MSDS.

## Calculation of Uncertainty:

The following equations are used to calculate the value of the expanded uncertainty:

$u = k u_c$   $u$  = Expanded Uncertainty,  $k$  = the coverage factor at the 95% confidence level,  $k = 2$ ,  $u_c$  = the combined uncertainty

$u_c = (u_{char}^2 + u_{tran}^2 + u_{homo}^2 + u_{lis}^2)^{1/2}$  where  $u_i$  are the individual uncertainty components for manufacturing, transportation, homogeneity, and shelf life. While no significant uncertainty was detected in the replicates, a minimum contribution to

Manufactured By:



Jared Ball

1 -Jul-2021

Quality Control Chemist I

Certified By:



Claire Desrochers

7 -Jul-2021

Quality Control Chemist I

Released By:



Susan Mathews

8 -Jul-2021

Quality Control Team Lead

7290B Investment Drive • North Charleston, SC 29418  
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# Certificate of Analysis

Catalog No. G34-120070-04-SS

Lot No. 454407

Expiration Date 1 -Jul-2023

uncertainty was added for homogeneity and long term stability as described in ISO Guide 35:2017.

## Expiration Information:

The stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. Studies on the short term instability have determined no contribution to instability as observed on the concentration under controlled transportation conditions. This standard is guaranteed until 1-Jul-2023

## Quality Standard Documentation:

- ISO/IEC 17025:2017 “General Requirements for the Competence of Testing and Calibration” - Chemical Testing - Accredited A2LA Certificate Number 3031.01
- ISO 17034:2016 “General Requirements for the Competence of Reference Material Producers” - Reference Material Production - Accredited A2LA Certificate Number 3031.02

**Manufactured By:**



Jared Ball

1 -Jul-2021

**Quality Control Chemist I**

**Certified By:**

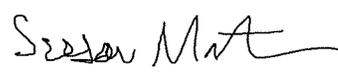


Claire Desrochers

7 -Jul-2021

**Quality Control Chemist I**

**Released By:**



Susan Mathews

8 -Jul-2021

**Quality Control Team Lead**

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Phone: 866.272.0932 • Fax: 866.509.5146 www.o2si.com

# Method 8015C - DAI Glycols

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Glycols -Direct Injection (GC/FID) -  
Method 8015C

FORM III  
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 22GL16006.D  
 Lab ID: LCS 680-755535/6 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy) ethanol	20.0	22.3	112	50-150	

# Column to be used to flag recovery and RPD values  
 FORM III 8015C GLY

FORM III  
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: -22GL17006-LCS.d  
 Lab ID: LCS 680-755698/1006 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy) ethanol	20.0	22.8	114	50-150	

# Column to be used to flag recovery and RPD values  
 FORM III 8015C GLY

FORM III  
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 22GL16007.D  
 Lab ID: LCSD 680-755535/7 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-(2-Butoxyethoxy) ethanol	20.0	23.8	119	7	50	50-150	

# Column to be used to flag recovery and RPD values  
 FORM III 8015C GLY

FORM III  
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 22GL17007.D  
 Lab ID: LCSD 680-755698/7 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-(2-Butoxyethoxy) ethanol	20.0	20.7	103	10	50	50-150	

# Column to be used to flag recovery and RPD values  
 FORM III 8015C GLY

FORM III  
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 22GL16017.D  
 Lab ID: 580-121247-2 MS Client ID: AF-RHMW06-WGN01B-2212W1 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy) ethanol	20.0	3.0 U	3.0 U	0	50-150	J1

# Column to be used to flag recovery and RPD values  
 FORM III 8015C GLY

FORM III  
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 22GL16018.D  
 Lab ID: 580-121247-2 MSD Client ID: AF-RHMW06-WGN01B-2212W1 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-(2-Butoxyethoxy) ethanol	20.0	3.0 U	0	NC	50	50-150	J1

# Column to be used to flag recovery and RPD values  
 FORM III 8015C GLY

FORM IV  
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: MB 680-755535/13  
 Matrix: Water Date Extracted: \_\_\_\_\_  
 Lab File ID: (1) 22GL16013.D Lab File ID: (2) \_\_\_\_\_  
 Date Analyzed: (1) 12/16/2022 20:31 Date Analyzed: (2) \_\_\_\_\_  
 Instrument ID: (1) CVGG2 Instrument ID: (2) \_\_\_\_\_  
 GC Column: (1) J&W DB WAX ID: 0.45 (mm) GC Column: (2) \_\_\_\_\_ ID: \_\_\_\_\_

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 680-755535/6	12/16/2022 17:42	
	LCSD 680-755535/7	12/16/2022 18:05	
AF-RHMMW06-WGN01B-2212W1	580-121247-2	12/16/2022 21:16	
AF-RHMMW06-WQEB01-2212W1	580-121247-3	12/16/2022 21:38	
AF-RHMMW06-WGN01B-2212W1 MS	580-121247-2 MS	12/16/2022 22:01	
AF-RHMMW06-WGN01B-2212W1 MSD	580-121247-2 MSD	12/16/2022 22:23	

FORM IV  
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: MB 680-755698/10  
 Matrix: Water Date Extracted: \_\_\_\_\_  
 Lab File ID: (1) 22GL17010.D Lab File ID: (2) \_\_\_\_\_  
 Date Analyzed: (1) 12/17/2022 19:59 Date Analyzed: (2) \_\_\_\_\_  
 Instrument ID: (1) CVGG2 Instrument ID: (2) \_\_\_\_\_  
 GC Column: (1) J&W DB WAX ID: 0.45 (mm) GC Column: (2) \_\_\_\_\_ ID: \_\_\_\_\_

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 680-755698/1006	12/17/2022 18:28	
	LCSD 680-755698/7	12/17/2022 18:51	
AF-RHWW16-WGN01B-2212W1	580-121247-1	12/17/2022 23:06	
AF-RHWW10-WGN01B-2212W1	580-121247-4	12/17/2022 23:28	
AF-RHWW12A-WGN01B-2212W1	580-121247-5	12/17/2022 23:51	

FORM VIII  
GC SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 680-755296/10 Date Analyzed: 12/15/2022 14:48  
 Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm)  
 Lab File ID (Standard): 22GL15010.D Heated Purge: (Y/N) N  
 Calibration ID: 88697

	nHPA		#	RT #	#	RT #
	AREA #	RT #				
INITIAL CALIBRATION MID-POINT	6443842	5.71				
UPPER LIMIT	12887684	6.21				
LOWER LIMIT	3221921	5.21				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 680-755296/13 CCV		7820966	5.71			

nHPA = n-Heptyl Alcohol

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 680-755698/6 Date Analyzed: 12/17/2022 18:28  
 Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm)  
 Lab File ID (Standard): 22GL17006.D Heated Purge: (Y/N) N  
 Calibration ID: 88697

		nHPA					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		6078535	5.74				
UPPER LIMIT		12157070	6.24				
LOWER LIMIT		3039268	5.24				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 680-755698/1006		6078535	5.74				
LCSD 680-755698/7		5536898	5.74				
MB 680-755698/10		7536137	5.74				
580-121247-1	AF-RHMW16-WGN01B-22 12W1	7668730	5.74				
580-121247-4	AF-RHMW10-WGN01B-22 12W1	7551328	5.75				
580-121247-5	AF-RHMW12A-WGN01B-2 212W1	6812679	5.75				
CCV 680-755698/24		6728487	5.74				

nHPA = n-Heptyl Alcohol

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AF-RHWW16-WGN01B-2212W1 Lab Sample ID: 580-121247-1  
 Matrix: Water Lab File ID: 22GL17018.D  
 Analysis Method: 8015C GLY Date Collected: 12/10/2022 15:30  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 12/17/2022 23:06  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Cleanup Factor: \_\_\_\_\_  
 Analysis Batch No.: 755698 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\22GL17018.D  
 Lims ID: 580-121247-C-1  
 Client ID: AF-RHMW16-WGN01B-2212W2  
 Sample Type: Client  
 Inject. Date: 17-Dec-2022 23:06:07      ALS Bottle#: 18      Worklist Smp#: 18  
 Injection Vol: 1.0 ul      Dil. Factor: 1.0000  
 Sample Info: 680-0082806-018  
 Operator ID:      Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 18-Dec-2022 10:31:44      Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard      Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm)      Det: GC FID2B  
 Process Host: CTX1606

First Level Reviewer: SWK1      Date: 18-Dec-2022 10:32:04

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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\* 4 n-Heptyl Alcohol  
 5.744    5.743    0.001    7668730    50.0

**QC Flag Legend**

Processing Flags

**Reagents:**

SG\_GLY\_ISTD\_00099      Amount Added: 10.00      Units: uL      Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\22GL17018.D

Injection Date: 17-Dec-2022 23:06:07

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-121247-C-1

Lab Sample ID: 680-121247-1

Worklist Smp#: 18

Client ID: AF-RHMW16-WGN01B-2212W2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

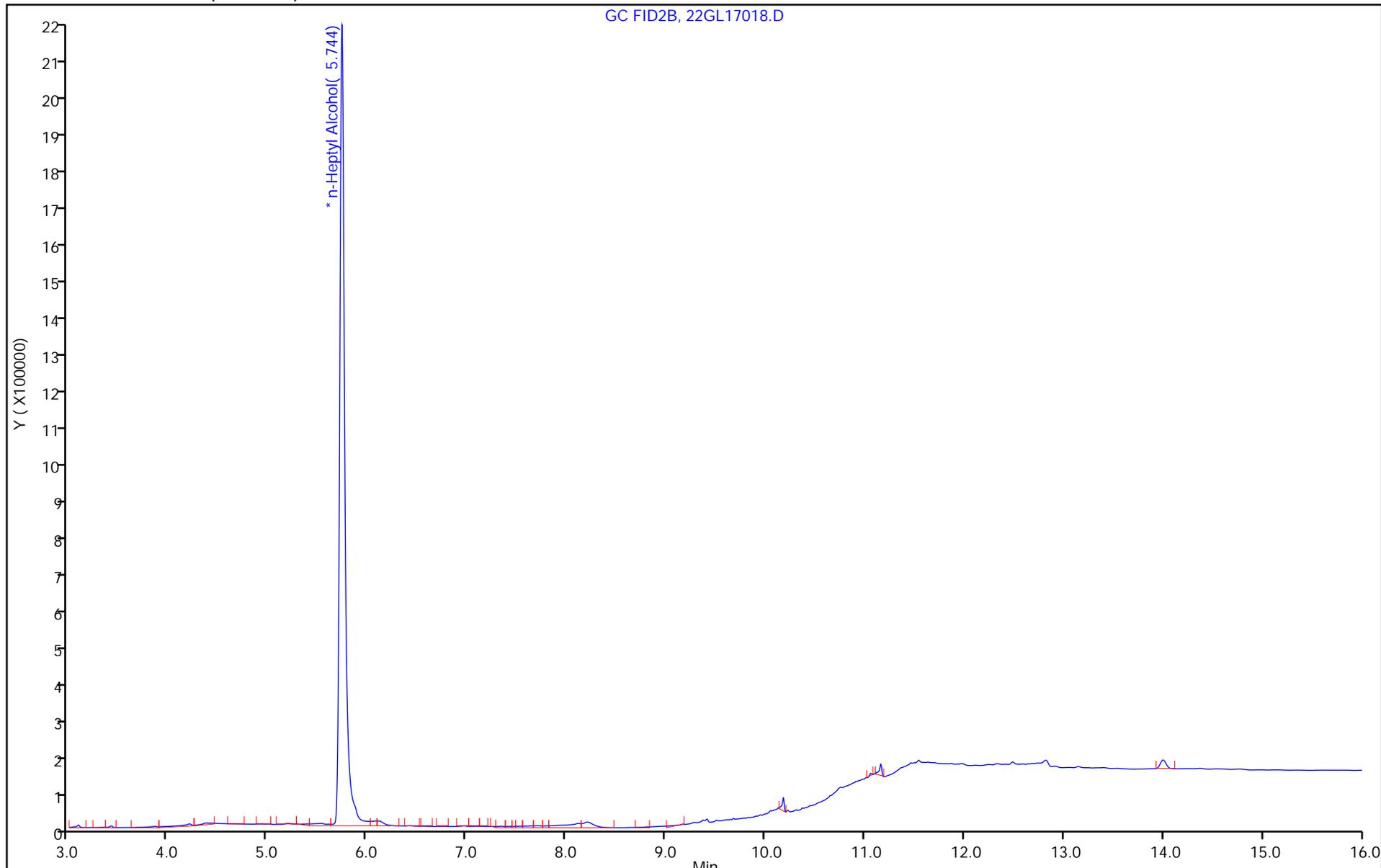
ALS Bottle#: 18

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)

GC FID2B, 22GL17018.D



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AF-RHMW06-WGN01B-2212W1 Lab Sample ID: 580-121247-2  
 Matrix: Water Lab File ID: 22GL16015.D  
 Analysis Method: 8015C GLY Date Collected: 12/08/2022 15:25  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 12/16/2022 21:16  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Cleanup Factor: \_\_\_\_\_  
 Analysis Batch No.: 755535 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16015.D  
 Lims ID: 580-121247-C-2  
 Client ID: AF-RHMW06-WGN01B-2212W1  
 Sample Type: Client  
 Inject. Date: 16-Dec-2022 21:16:20      ALS Bottle#: 15      Worklist Smp#: 15  
 Injection Vol: 1.0 ul      Dil. Factor: 1.0000  
 Sample Info: 680-0082779-015  
 Operator ID:      Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 17-Dec-2022 10:58:31      Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard      Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm)      Det: GC FID2B  
 Process Host: CTX1633

First Level Reviewer: SWK1      Date: 17-Dec-2022 10:57:39

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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\* 4 n-Heptyl Alcohol  
 5.744    5.738    0.006    7460271    50.0

**QC Flag Legend**

Processing Flags

**Reagents:**

SG\_GLY\_ISTD\_00099      Amount Added: 10.00      Units: uL      Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16015.D

Injection Date: 16-Dec-2022 21:16:20

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-121247-C-2

Lab Sample ID: 680-121247-2

Worklist Smp#: 15

Client ID: AF-RHMW06-WGN01B-2212W1

Injection Vol: 1.0 ul

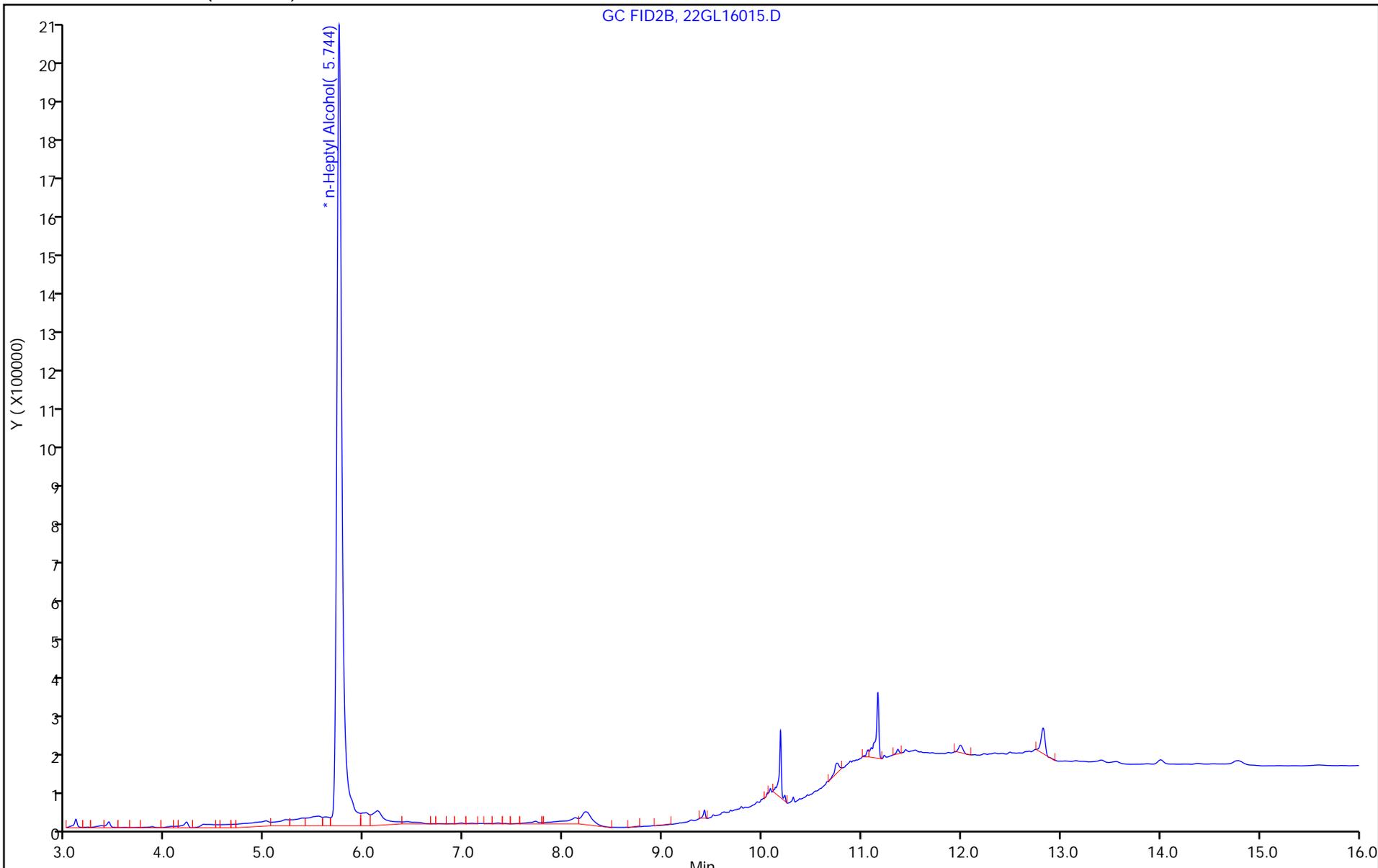
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AF-RHMMW06-WQEB01-2212W1 Lab Sample ID: 580-121247-3  
 Matrix: Water Lab File ID: 22GL16016.D  
 Analysis Method: 8015C GLY Date Collected: 12/08/2022 17:10  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 12/16/2022 21:38  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Cleanup Factor: \_\_\_\_\_  
 Analysis Batch No.: 755535 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16016.D  
 Lims ID: 580-121247-C-3  
 Client ID: AF-RHMW06-WQEB01-2212W1  
 Sample Type: Client  
 Inject. Date: 16-Dec-2022 21:38:57      ALS Bottle#: 16      Worklist Smp#: 16  
 Injection Vol: 1.0 ul      Dil. Factor: 1.0000  
 Sample Info: 680-0082779-016  
 Operator ID:      Instrument ID: CVGG2  
  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 17-Dec-2022 10:58:31      Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard      Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
  
 Column 1 : J&W DB WAX ( 0.45 mm)      Det: GC FID2B  
 Process Host: CTX1633

First Level Reviewer: SWK1      Date: 17-Dec-2022 10:57:45

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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\* 4 n-Heptyl Alcohol  
 5.747    5.738    0.009    7106114    50.0

**QC Flag Legend**

Processing Flags

**Reagents:**

SG\_GLY\_ISTD\_00099      Amount Added: 10.00      Units: uL      Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16016.D

Injection Date: 16-Dec-2022 21:38:57

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-121247-C-3

Lab Sample ID: 680-121247-3

Worklist Smp#: 16

Client ID: AF-RHMW06-WQEB01-2212W1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

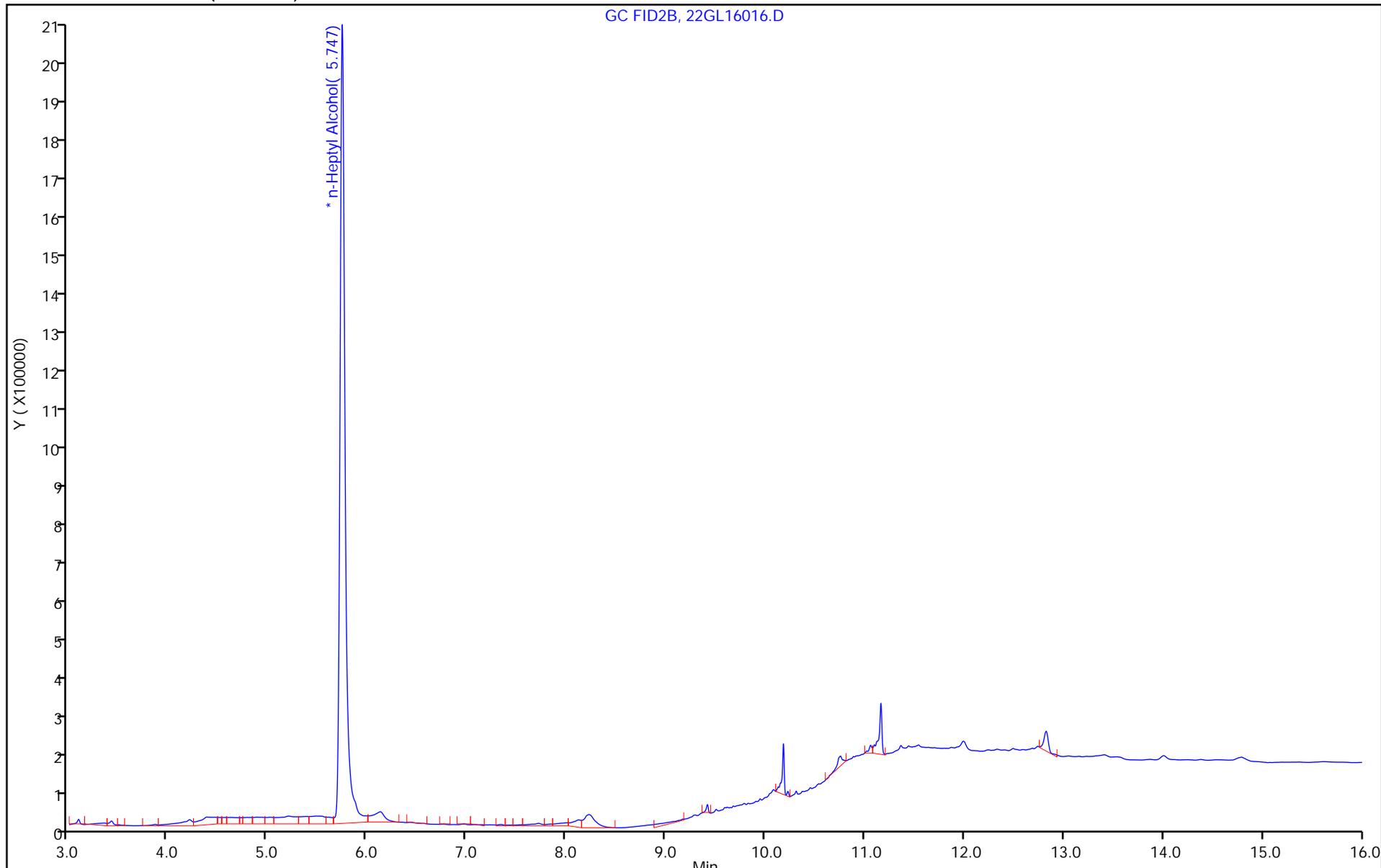
ALS Bottle#: 16

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)

GC FID2B, 22GL16016.D



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AF-RHWW10-WGN01B-2212W1 Lab Sample ID: 580-121247-4  
 Matrix: Water Lab File ID: 22GL17019.D  
 Analysis Method: 8015C GLY Date Collected: 12/11/2022 13:35  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 12/17/2022 23:28  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Cleanup Factor: \_\_\_\_\_  
 Analysis Batch No.: 755698 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\22GL17019.D  
 Lims ID: 580-121247-C-4  
 Client ID: AF-RHMW10-WGN01B-2212W2  
 Sample Type: Client  
 Inject. Date: 17-Dec-2022 23:28:43      ALS Bottle#: 19      Worklist Smp#: 19  
 Injection Vol: 1.0 ul      Dil. Factor: 1.0000  
 Sample Info: 680-0082806-019  
 Operator ID:      Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 18-Dec-2022 10:31:44      Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard      Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm)      Det: GC FID2B  
 Process Host: CTX1606

First Level Reviewer: SWK1      Date: 18-Dec-2022 10:32:06

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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\* 4 n-Heptyl Alcohol  
 5.745    5.743    0.002    7551328    50.0

**QC Flag Legend**

Processing Flags

**Reagents:**

SG\_GLY\_ISTD\_00099      Amount Added: 10.00      Units: uL      Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\22GL17019.D

Injection Date: 17-Dec-2022 23:28:43

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-121247-C-4

Lab Sample ID: 680-121247-4

Worklist Smp#: 19

Client ID: AF-RHMW10-WGN01B-2212W2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

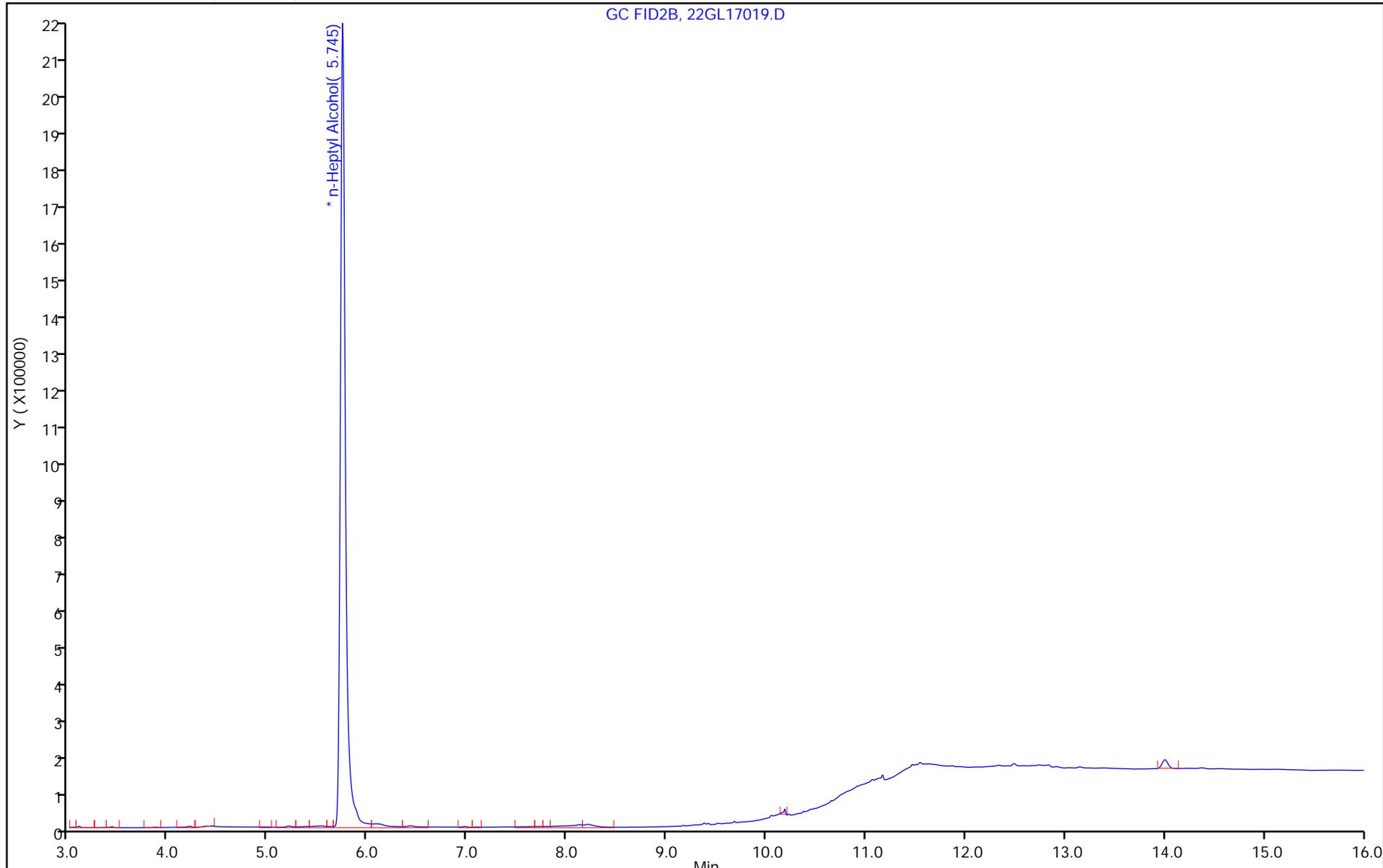
ALS Bottle#: 19

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)

GC FID2B, 22GL17019.D



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AF-RHWW12A-WGN01B-2212W1 Lab Sample ID: 580-121247-5  
 Matrix: Water Lab File ID: 22GL17020.D  
 Analysis Method: 8015C GLY Date Collected: 12/09/2022 21:45  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 12/17/2022 23:51  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Cleanup Factor: \_\_\_\_\_  
 Analysis Batch No.: 755698 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\22GL17020.D  
 Lims ID: 580-121247-C-5  
 Client ID: AF-RHMW12A-WGN01B-2212W2  
 Sample Type: Client  
 Inject. Date: 17-Dec-2022 23:51:12 ALS Bottle#: 20 Worklist Smp#: 20  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082806-020  
 Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 18-Dec-2022 10:31:44 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1606

First Level Reviewer: SWK1 Date: 18-Dec-2022 10:32:08

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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\* 4 n-Heptyl Alcohol  
 5.745 5.743 0.002 6812679 50.0

**QC Flag Legend**

Processing Flags

**Reagents:**

SG\_GLY\_ISTD\_00099 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\22GL17020.D

Injection Date: 17-Dec-2022 23:51:12

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-121247-C-5

Lab Sample ID: 680-121247-5

Worklist Smp#: 20

Client ID: AF-RHMW12A-WGN01B-2212W2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

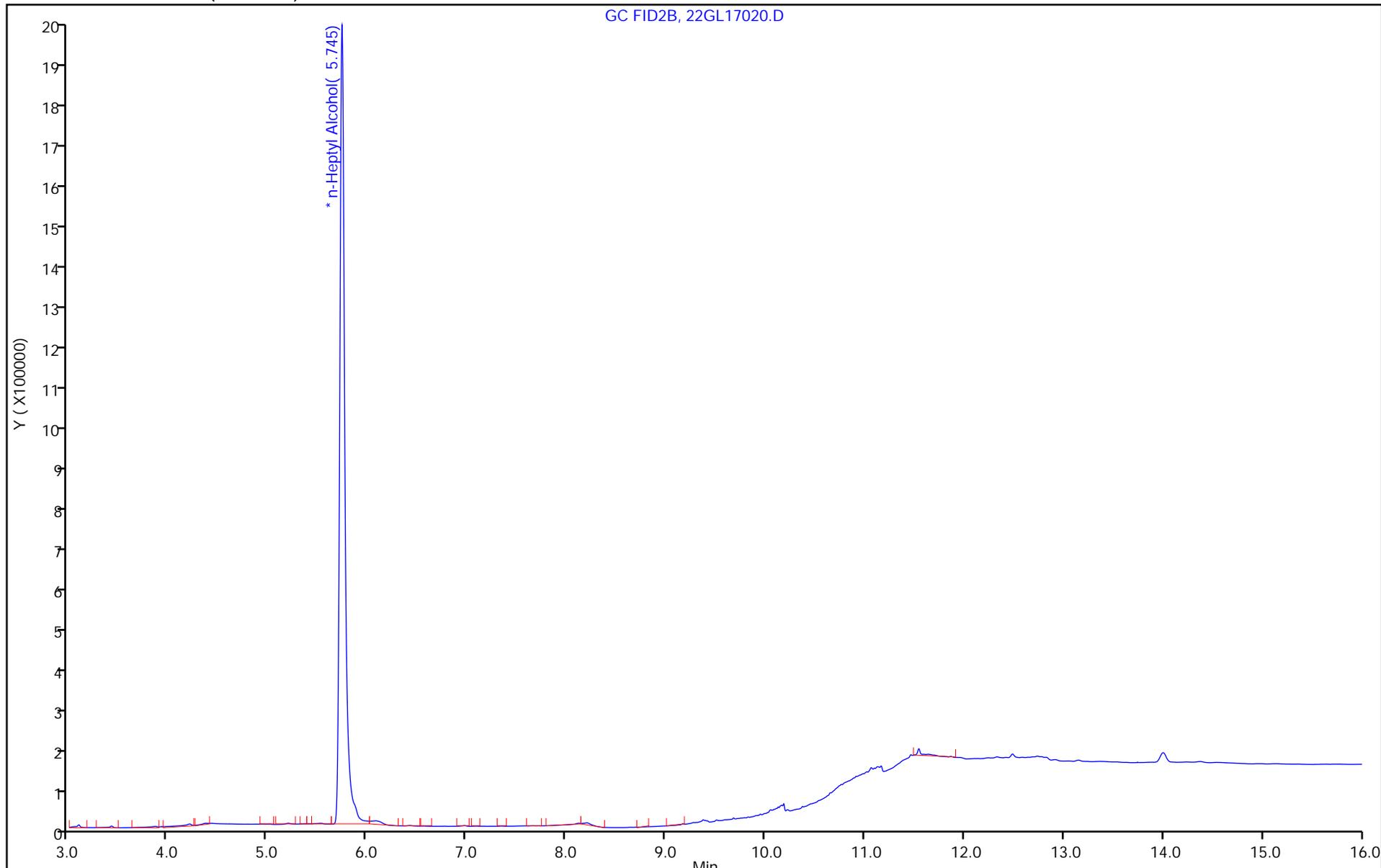
ALS Bottle#: 20

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)

GC FID2B, 22GL17020.D



FORM VI  
GC SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Savannah Job No.: 580-121247-1 Analy Batch No.: 755296  
 SDG No.: \_\_\_\_\_  
 Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 12/15/2022 13:40 Calibration End Date: 12/15/2022 15:34 Calibration ID: 88697

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-755296/12	22GL15012.D
Level 2	IC 680-755296/11	22GL15011.D
Level 3	ICIS 680-755296/10	22GL15010.D
Level 4	IC 680-755296/9	22GL15009.D
Level 5	IC 680-755296/8	22GL15008.D
Level 6	IC 680-755296/7	22GL15007.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethanol, 2-propoxy	0.5816 0.4737	0.5568	0.5171	0.4615	0.5207	Ave		0.518 6			8.9		20.0				
4-Hydroxy-4-methyl-2-pentanone	0.6069 0.4985	0.5826	0.5431	0.4794	0.5476	Ave		0.543 0			8.9		20.0				
2-Butoxyethanol	0.6374 0.5121	0.6038	0.5557	0.4918	0.5613	Ave		0.560 4			9.7		20.0				
Dipropylene Glycol Methyl Ether	0.0431 0.0367	0.0396	0.0435	0.0351	0.0416	Ave		0.039 9			8.6		20.0				
Propylene glycol	0.3771 ++++	0.3055	0.3662	0.3077	0.3466	Ave		0.340 6			9.7		20.0				
Ethylene glycol	0.3909 ++++	0.3167	0.3413	0.2928	0.3158	Ave		0.331 5			11.3		20.0				
2-(2-Butoxyethoxy)ethanol	0.5666 0.4465	0.5278	0.4873	0.4391	0.5106	Ave		0.496 3			9.9		20.0				
2,2'-Oxybisethanol	0.3586 0.2979	0.3343	0.3201	0.2784	0.3203	Ave		0.318 3			8.8		20.0				
Triethylene Glycol	0.4069 0.2998	0.3723	0.3329	0.2783	0.3204	Lin2	0.593 1	0.296 3						0.9940		0.9900	
Tetraethylene Glycol	0.3889 0.3018	0.3481	0.3168	0.2619	0.3191	Lin2	1.018 4	0.289 5						0.9920		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
GC SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Savannah Job No.: 580-121247-1 Analy Batch No.: 755296

SDG No.: \_\_\_\_\_

Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2022 13:40 Calibration End Date: 12/15/2022 15:34 Calibration ID: 88697

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-755296/12	22GL15012.D
Level 2	IC 680-755296/11	22GL15011.D
Level 3	ICIS 680-755296/10	22GL15010.D
Level 4	IC 680-755296/9	22GL15009.D
Level 5	IC 680-755296/8	22GL15008.D
Level 6	IC 680-755296/7	22GL15007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethanol, 2-propoxy	nHPA	Ave	416727 7053688	791260	1332867	2587988	6285698	5.00 100	10.0	20.0	50.0	80.0
4-Hydroxy-4-methyl-2-pentanone	nHPA	Ave	434849 7423255	827949	1399741	2688287	6609451	5.00 100	10.0	20.0	50.0	80.0
2-Butoxyethanol	nHPA	Ave	456743 7626714	858121	1432260	2757997	6774865	5.00 100	10.0	20.0	50.0	80.0
Dipropylene Glycol Methyl Ether	nHPA	Ave	30872 546715	56303	112172	196877	502049	5.00 100	10.0	20.0	50.0	80.0
Propylene glycol	nHPA	Ave	270235 ++++	434131	943990	1725397	4183063	5.00 ++++	10.0	20.0	50.0	80.0
Ethylene glycol	nHPA	Ave	280066 ++++	450038	879839	1642095	3811895	5.00 ++++	10.0	20.0	50.0	80.0
2-(2-Butoxyethoxy)ethanol	nHPA	Ave	405977 6649122	750029	1256158	2462169	6163303	5.00 100	10.0	20.0	50.0	80.0
2,2'-Oxybisethanol	nHPA	Ave	256938 4436367	475084	824970	1561212	3866081	5.00 100	10.0	20.0	50.0	80.0
Triethylene Glycol	nHPA	Lin2	291568 4464024	529150	858022	1560681	3867921	5.00 100	10.0	20.0	50.0	80.0
Tetraethylene Glycol	nHPA	Lin2	557362 8988059	989281	1633146	2937100	7703370	10.0 200	20.0	40.0	100	160

Curve Type Legend

Ave = Average ISTD  
Lin2 = Linear 1/conc^2 ISTD

FORM VI  
GC SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Savannah Job No.: 580-121247-1 Analy Batch No.: 755296

SDG No.: \_\_\_\_\_

Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2022 13:40 Calibration End Date: 12/15/2022 15:34 Calibration ID: 88697

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-755296/12	22GL15012.D
Level 2	IC 680-755296/11	22GL15011.D
Level 3	ICIS 680-755296/10	22GL15010.D
Level 4	IC 680-755296/9	22GL15009.D
Level 5	IC 680-755296/8	22GL15008.D
Level 6	IC 680-755296/7	22GL15007.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Ethanol, 2-propoxy	12.2	7.4	-0.3	-11.0	0.4	-8.7	20	20	20	20	20	20
4-Hydroxy-4-methyl-2-pentanone	11.8	7.3	0.0	-11.7	0.8	-8.2	20	20	20	20	20	20
2-Butoxyethanol	13.8	7.8	-0.8	-12.2	0.2	-8.6	20	20	20	20	20	20
Dipropylene Glycol Methyl Ether	7.9	-0.8	9.0	-12.1	4.1	-8.1	20	20	20	20	20	20
Propylene glycol	10.7	-10.3	7.5	-9.7	1.7	++++	20	20	20	20	20	
Ethylene glycol	17.9	-4.5	3.0	-11.7	-4.7	++++	20	20	20	20	20	
2-(2-Butoxyethoxy)ethanol	14.2	6.3	-1.8	-11.5	2.9	-10.0	20	20	20	20	20	20
2,2'-Oxybisethanol	12.7	5.0	0.6	-12.5	0.6	-6.4	20	20	20	20	20	20
Triethylene Glycol	-2.7	5.6	2.3	-10.1	5.6	-0.8	20	20	20	20	20	20
Tetraethylene Glycol	-0.8	2.7	0.7	-13.0	8.0	2.5	20	20	20	20	20	20

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15007.D  
 Lims ID: ic g6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 15-Dec-2022 13:40:52 ALS Bottle#: 7 Worklist Smp#: 7  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082752-007  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 15-Dec-2022 18:35:03 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1659

First Level Reviewer: SK9U Date: 15-Dec-2022 17:24:57

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.984	3.983	0.001	7053688	100.0	91.3	
2 4-Hydroxy-4-methyl-2-pentanone						
4.806	4.806	0.000	7423255	100.0	91.8	
3 2-Butoxyethanol						
5.175	5.175	0.000	7626714	100.0	91.4	
* 4 n-Heptyl Alcohol						
5.708	5.708	0.000	7445839	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
6.827	6.831	-0.004	546715	100.0	91.9	
6 Propylene glycol						
7.822	7.827	-0.005	3624516	100.0	71.5	M
7 Ethylene glycol						
8.217	8.218	-0.001	3043727	100.0	61.7	M
8 2-(2-Butoxyethoxy)ethanol						
9.493	9.491	0.002	6649122	100.0	90.0	
9 2,2'-Oxybisethanol						
10.178	10.176	0.002	4436367	100.0	93.6	
10 Triethylene Glycol						
11.159	11.159	0.000	4464024	100.0	99.2	M
11 Tetraethylene Glycol						
12.824	12.821	0.003	8988059	200.0	205.0	

QC Flag Legend  
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG\_Gly\_CAL\_00047

Amount Added: 50.00

Units: uL

SG\_GLY\_ISTD\_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15007.D

Injection Date: 15-Dec-2022 13:40:52

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g6

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

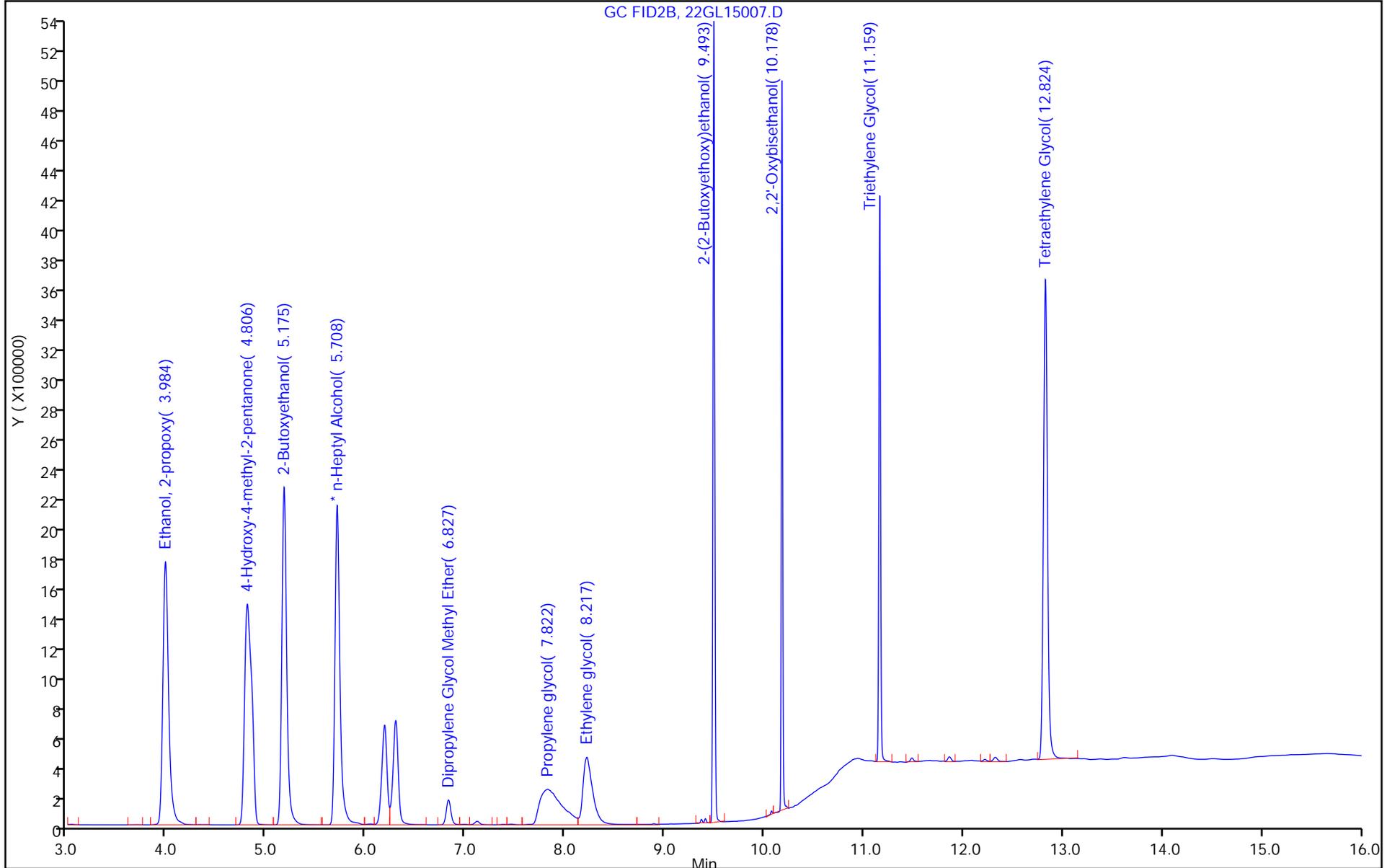
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

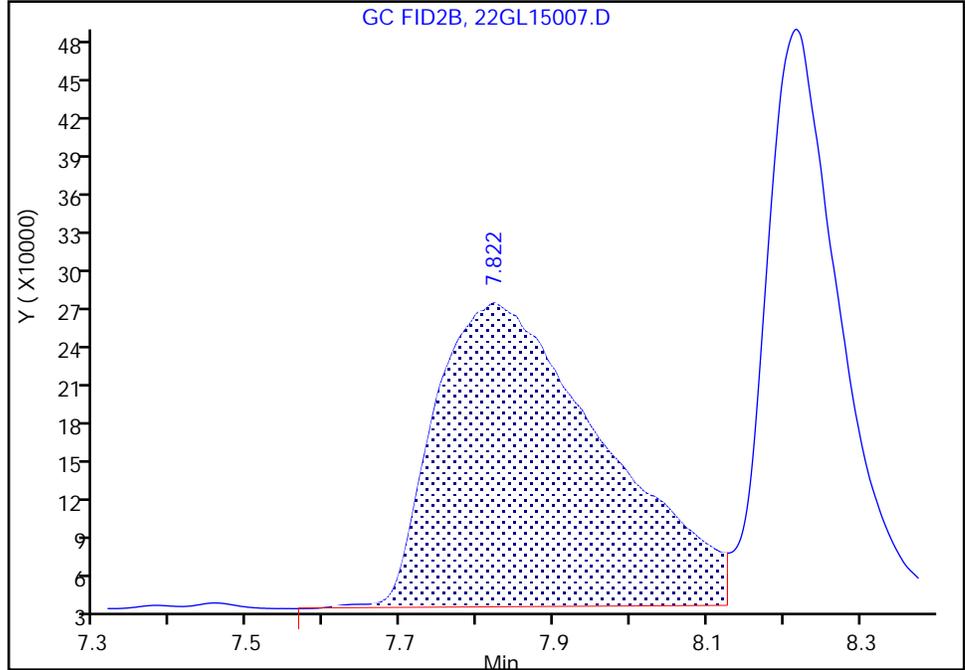
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15007.D  
Injection Date: 15-Dec-2022 13:40:52 Instrument ID: CVGG2  
Lims ID: ic g6  
Client ID:  
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

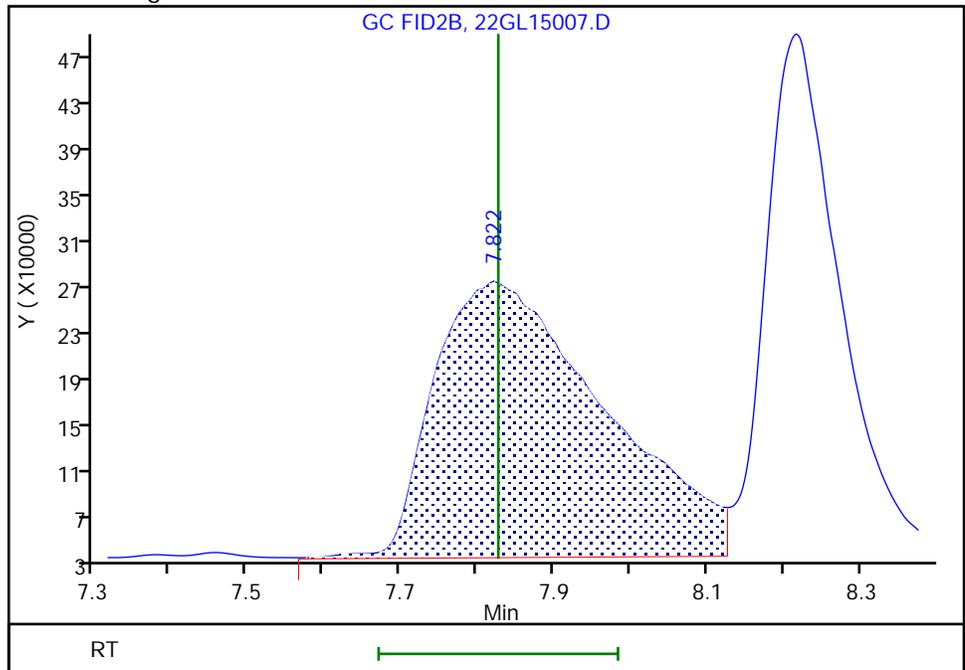
RT: 7.82  
Area: 3607792  
Amount: 74.721268  
Amount Units: ug/ml

Processing Integration Results



RT: 7.82  
Area: 3624516  
Amount: 71.455054  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:33:27  
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

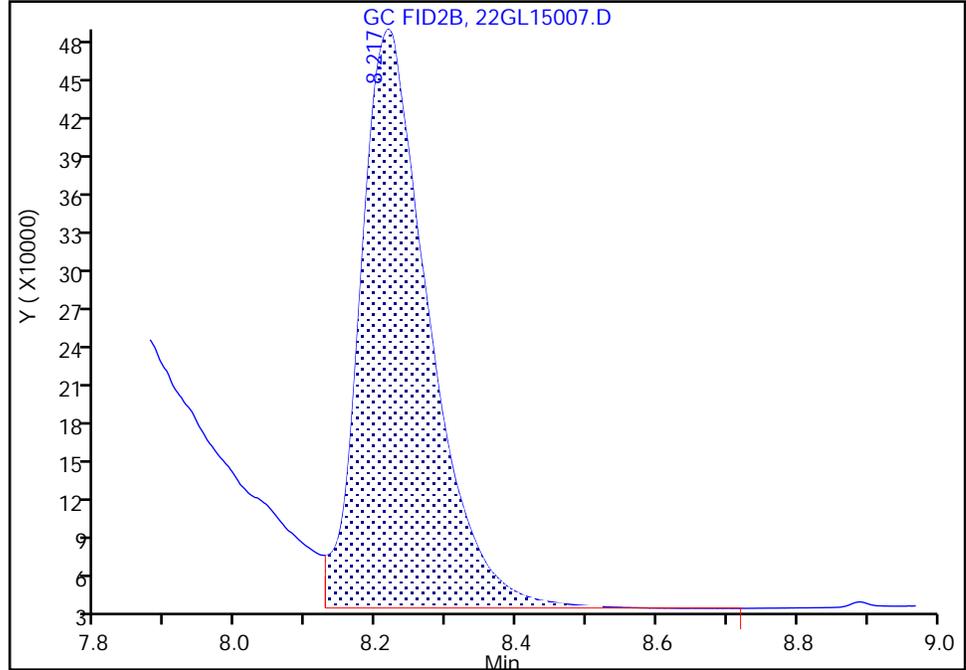
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15007.D  
Injection Date: 15-Dec-2022 13:40:52 Instrument ID: CVGG2  
Lims ID: ic g6  
Client ID:  
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

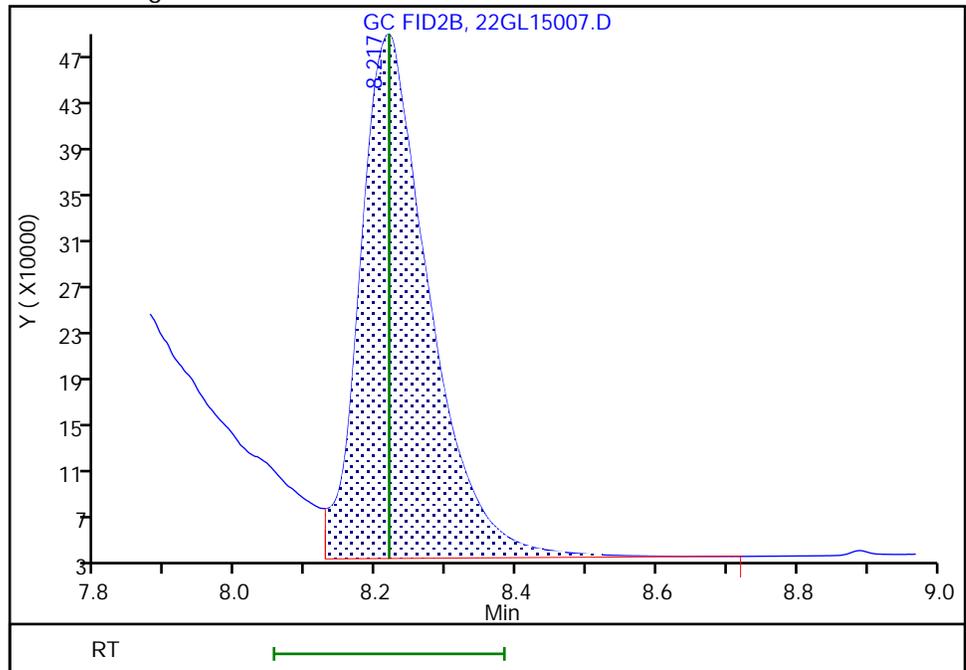
RT: 8.22  
Area: 3026716  
Amount: 65.536617  
Amount Units: ug/ml

Processing Integration Results



RT: 8.22  
Area: 3043727  
Amount: 61.655254  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:33:27  
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

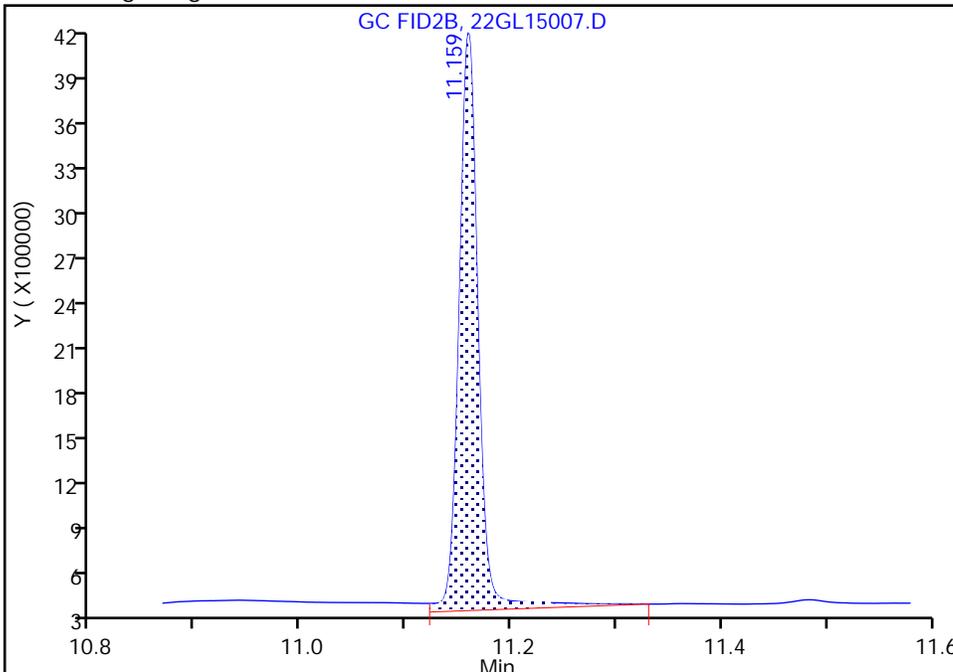
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15007.D  
Injection Date: 15-Dec-2022 13:40:52 Instrument ID: CVGG2  
Lims ID: ic g6  
Client ID:  
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

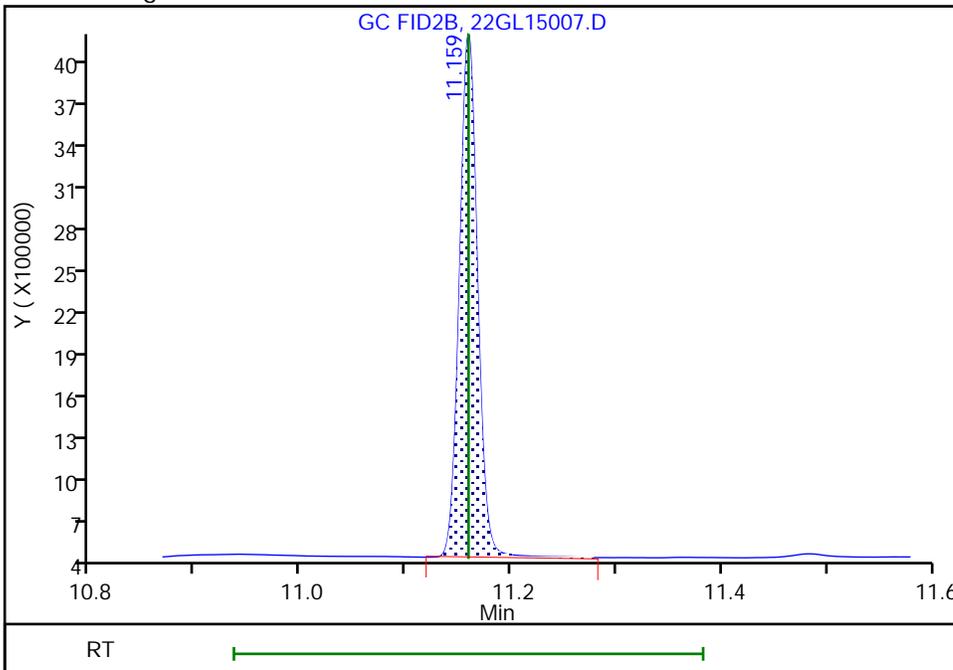
RT: 11.16  
Area: 4844633  
Amount: 101.9642  
Amount Units: ug/ml

Processing Integration Results



RT: 11.16  
Area: 4464024  
Amount: 99.163918  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:27:49  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15008.D  
 Lims ID: ic g5  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 15-Dec-2022 14:03:30 ALS Bottle#: 8 Worklist Smp#: 8  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082752-008  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 15-Dec-2022 18:35:03 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1659

First Level Reviewer: SWK1 Date: 15-Dec-2022 18:28:03

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy	3.981	3.983	-0.002	6285698	80.0	80.3
2 4-Hydroxy-4-methyl-2-pentanone	4.806	4.806	0.000	6609451	80.0	80.7
3 2-Butoxyethanol	5.176	5.175	0.001	6774865	80.0	80.1
* 4 n-Heptyl Alcohol	5.710	5.708	0.002	7544066	50.0	50.0
5 Dipropylene Glycol Methyl Ether	6.831	6.831	0.000	502049	80.0	83.3
6 Propylene glycol	7.826	7.827	-0.001	4183063	80.0	81.4
7 Ethylene glycol	8.218	8.218	0.000	3811895	80.0	76.2
8 2-(2-Butoxyethoxy)ethanol	9.493	9.491	0.002	6163303	80.0	82.3
9 2,2'-Oxybisethanol	10.178	10.176	0.002	3866081	80.0	80.5
10 Triethylene Glycol	11.159	11.159	0.000	3867921	80.0	84.5 M
11 Tetraethylene Glycol	12.822	12.821	0.001	7703370	160.0	172.9 M

QC Flag Legend  
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG\_Gly\_CAL\_00047

Amount Added: 40.00

Units: uL

SG\_GLY\_ISTD\_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15008.D

Injection Date: 15-Dec-2022 14:03:30

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g5

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

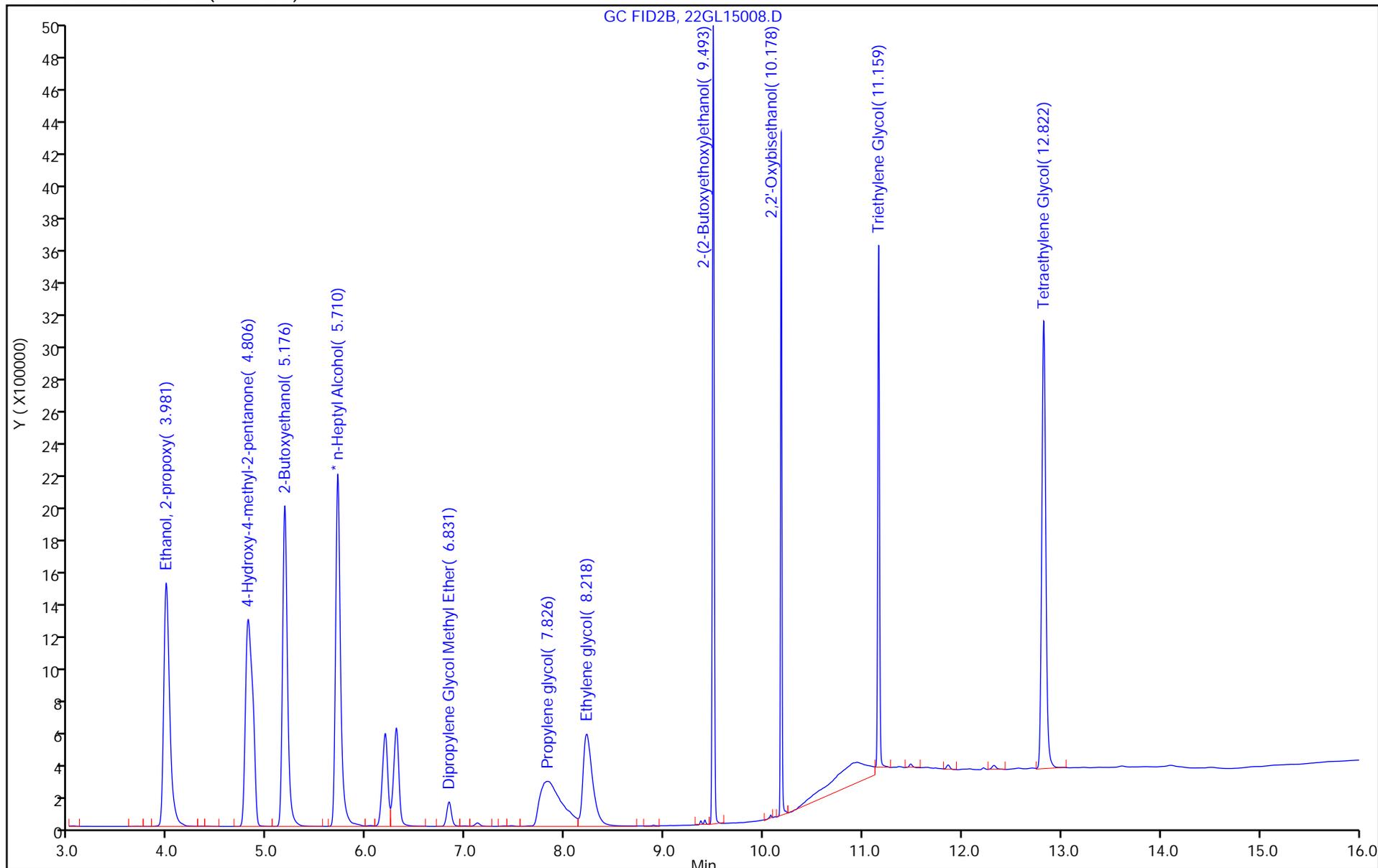
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

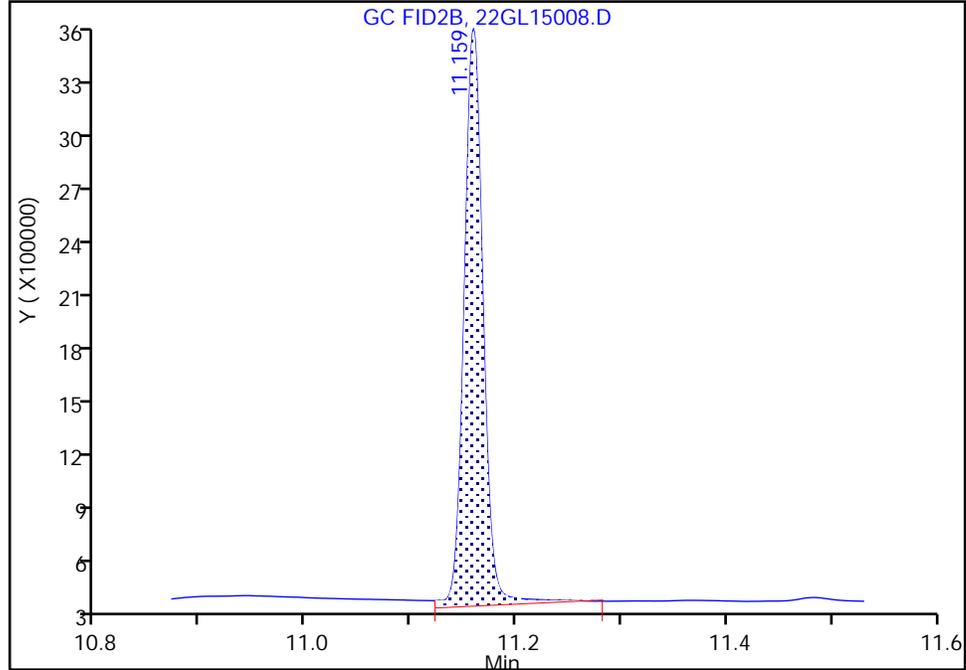
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15008.D  
Injection Date: 15-Dec-2022 14:03:30 Instrument ID: CVGG2  
Lims ID: ic g5  
Client ID:  
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

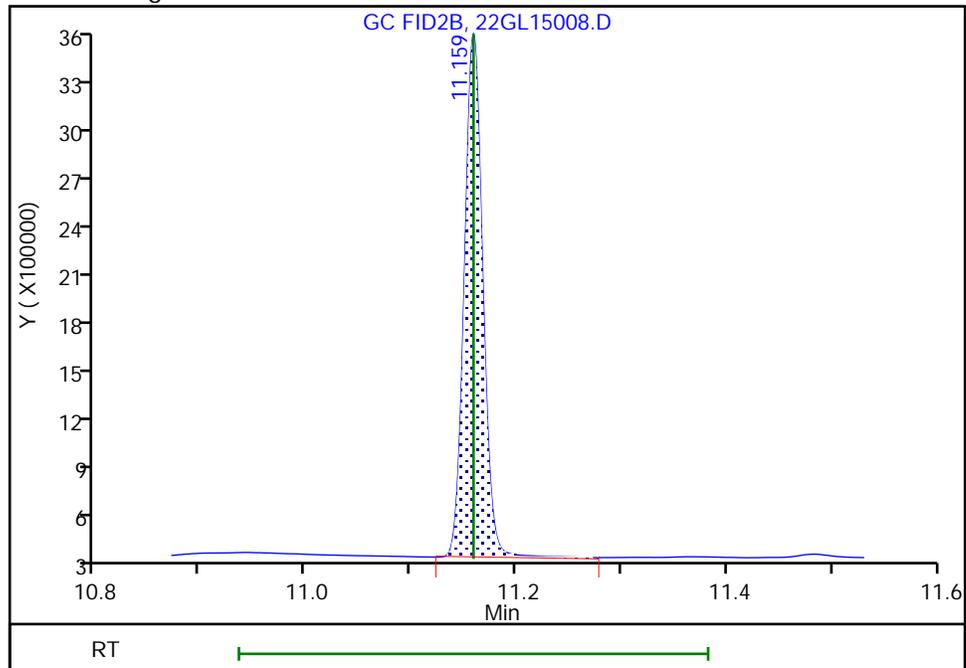
RT: 11.16  
Area: 4076952  
Amount: 85.617419  
Amount Units: ug/ml

Processing Integration Results



RT: 11.16  
Area: 3867921  
Amount: 84.513452  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:28:02  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing  
Page 70 of 159

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15009.D  
 Lims ID: ic g4  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 15-Dec-2022 14:26:10 ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082752-009  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 15-Dec-2022 18:35:04 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1659

First Level Reviewer: SWK1 Date: 15-Dec-2022 18:28:15

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.981	3.981	0.000	2587988	50.0	44.5	
2 4-Hydroxy-4-methyl-2-pentanone						
4.806	4.806	0.000	2688287	50.0	44.1	
3 2-Butoxyethanol						
5.175	5.175	0.000	2757997	50.0	43.9	
* 4 n-Heptyl Alcohol						
5.709	5.709	0.000	5607434	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
6.829	6.829	0.000	196877	50.0	44.0	
6 Propylene glycol						
7.829	7.829	0.000	1725397	50.0	45.2	
7 Ethylene glycol						
8.218	8.218	0.000	1642095	50.0	44.2	
8 2-(2-Butoxyethoxy)ethanol						
9.492	9.492	0.000	2462169	50.0	44.2	
9 2,2'-Oxybisethanol						
10.177	10.177	0.000	1561212	50.0	43.7	
10 Triethylene Glycol						M
11.159	11.159	0.000	1560681	50.0	45.0	M
11 Tetraethylene Glycol						
12.823	12.823	0.000	2937100	100.0	87.0	

QC Flag Legend  
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG\_Gly\_CAL\_00047

Amount Added: 25.00

Units: uL

SG\_GLY\_ISTD\_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15009.D

Injection Date: 15-Dec-2022 14:26:10

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g4

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

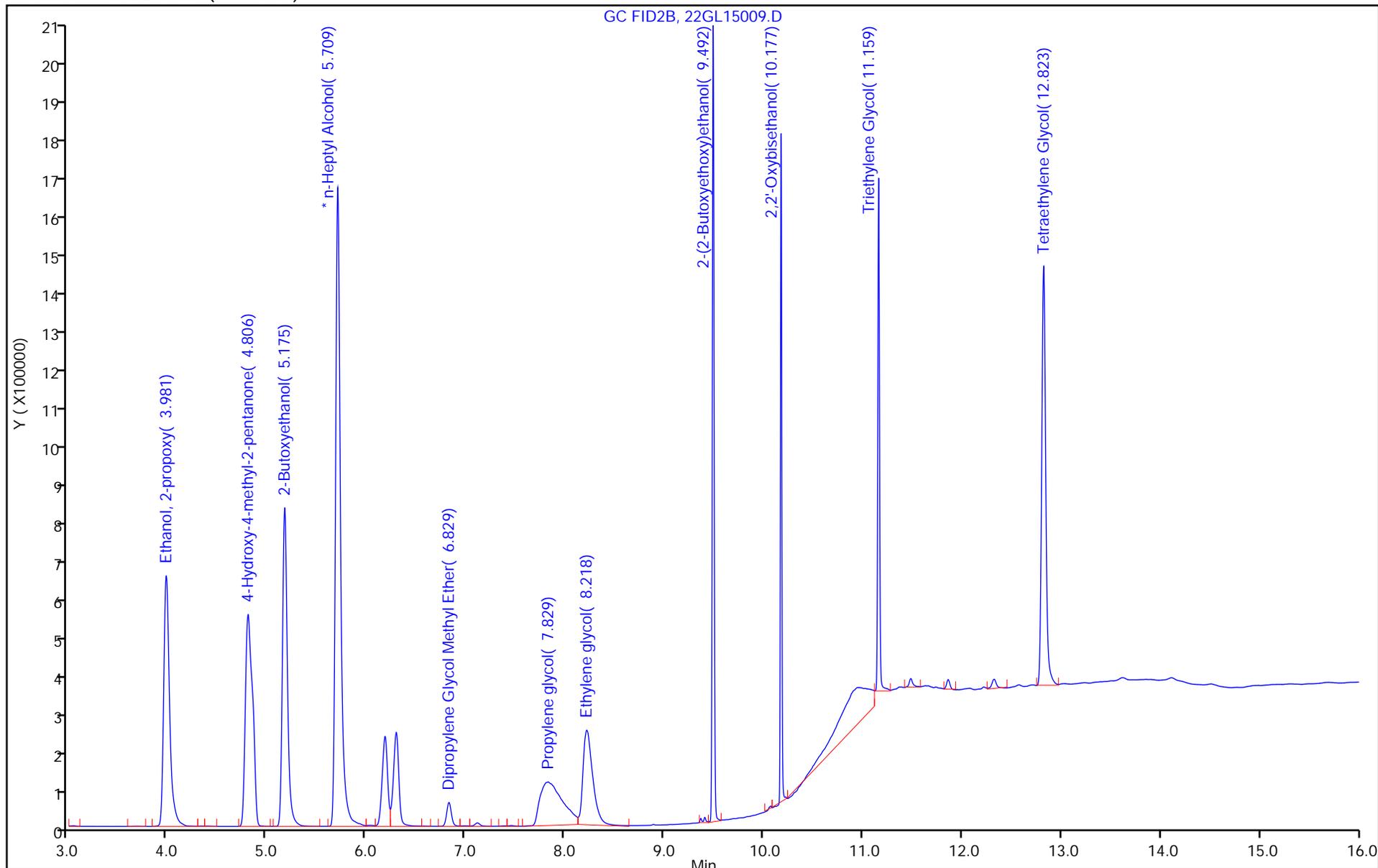
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

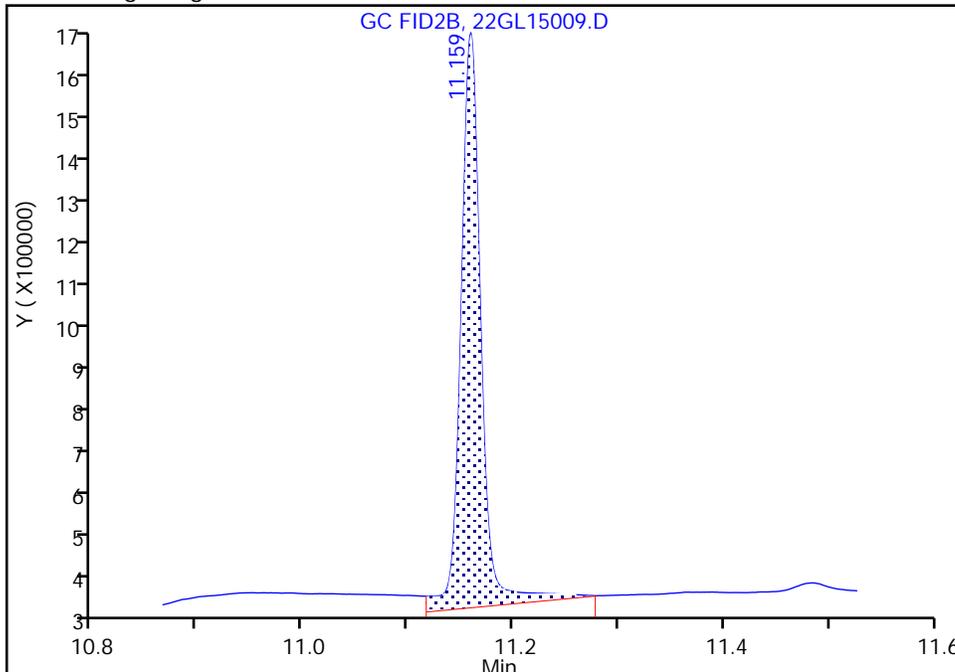
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15009.D  
Injection Date: 15-Dec-2022 14:26:10 Instrument ID: CVGG2  
Lims ID: ic g4  
Client ID:  
Operator ID: ALS Bottle#: 9 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

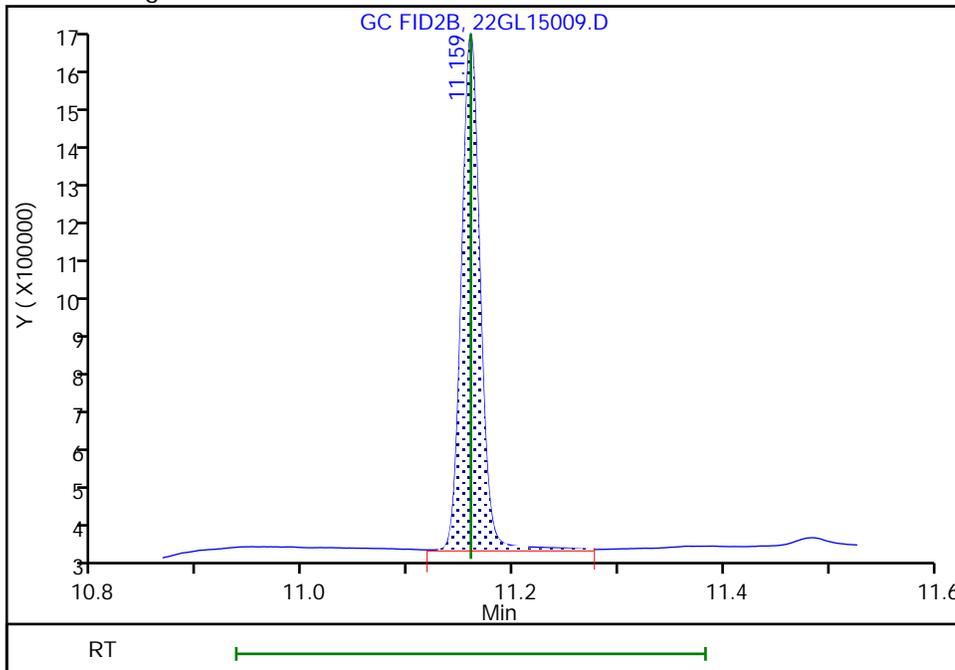
RT: 11.16  
Area: 1737472  
Amount: 46.932084  
Amount Units: ug/ml

Processing Integration Results



RT: 11.16  
Area: 1560681  
Amount: 44.962836  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:28:13  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D  
 Lims ID: icis g3  
 Client ID:  
 Sample Type: ICIS Calib Level: 3  
 Inject. Date: 15-Dec-2022 14:48:56 ALS Bottle#: 10 Worklist Smp#: 10  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082752-010  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 15-Dec-2022 18:35:05 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1659

First Level Reviewer: SWK1 Date: 15-Dec-2022 18:28:35

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.983	3.983	0.000	1332867	20.0	19.9	
2 4-Hydroxy-4-methyl-2-pentanone						
4.806	4.806	0.000	1399741	20.0	20.0	
3 2-Butoxyethanol						
5.175	5.175	0.000	1432260	20.0	19.8	
* 4 n-Heptyl Alcohol						
5.708	5.708	0.000	6443842	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
6.831	6.831	0.000	112172	20.0	21.8	
6 Propylene glycol						
7.827	7.827	0.000	943990	20.0	21.5	M
7 Ethylene glycol						
8.218	8.218	0.000	879839	20.0	20.6	M
8 2-(2-Butoxyethoxy)ethanol						
9.491	9.491	0.000	1256158	20.0	19.6	M
9 2,2'-Oxybisethanol						
10.176	10.176	0.000	824970	20.0	20.1	
10 Triethylene Glycol						
11.159	11.159	0.000	858022	20.0	20.5	M
11 Tetraethylene Glycol						
12.821	12.821	0.000	1633146	40.0	40.3	

**QC Flag Legend**  
Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

SG\_Gly\_CAL\_00047

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D

Injection Date: 15-Dec-2022 14:48:56

Instrument ID: CVGG2

Operator ID:

Lims ID: icis g3

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

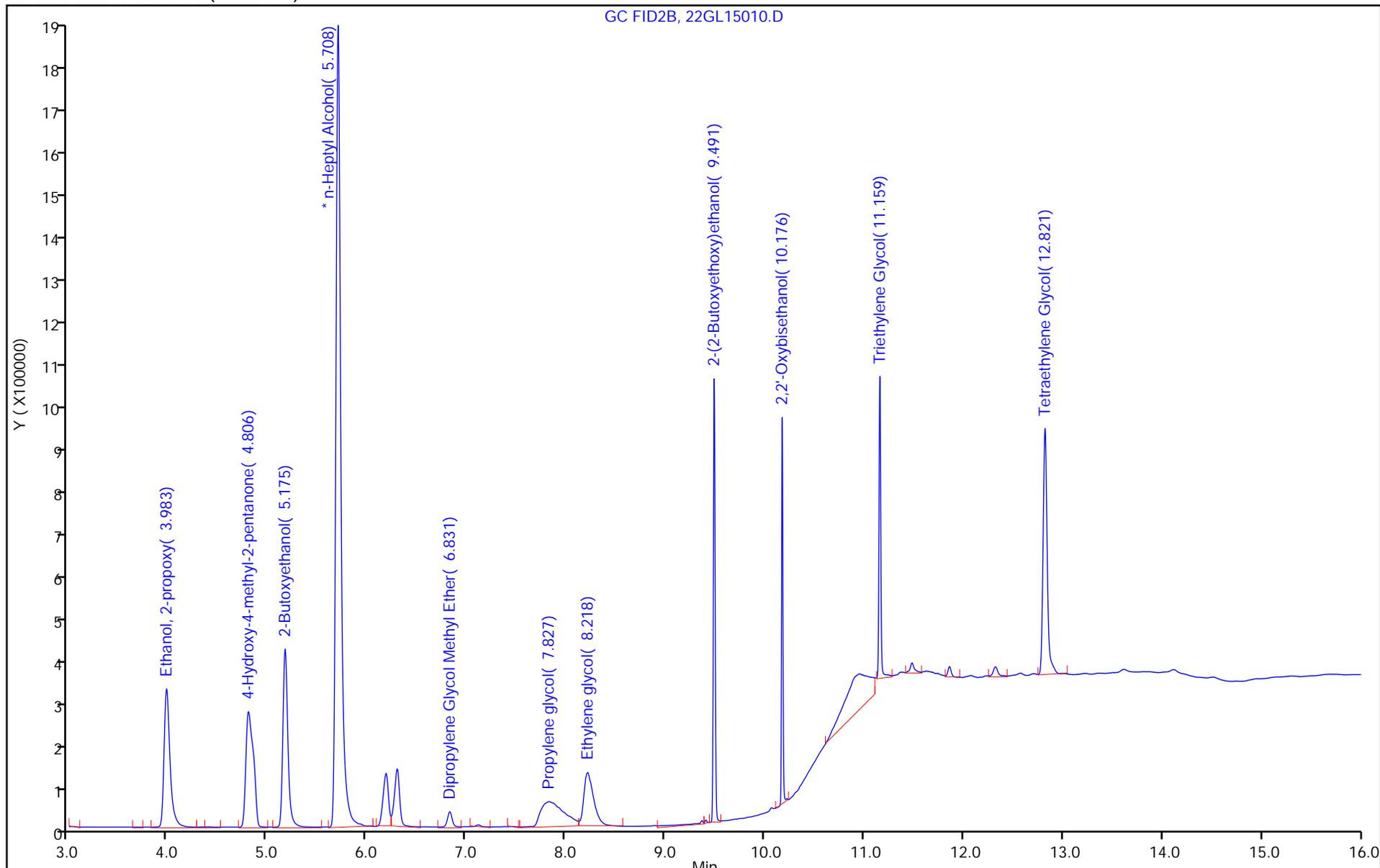
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

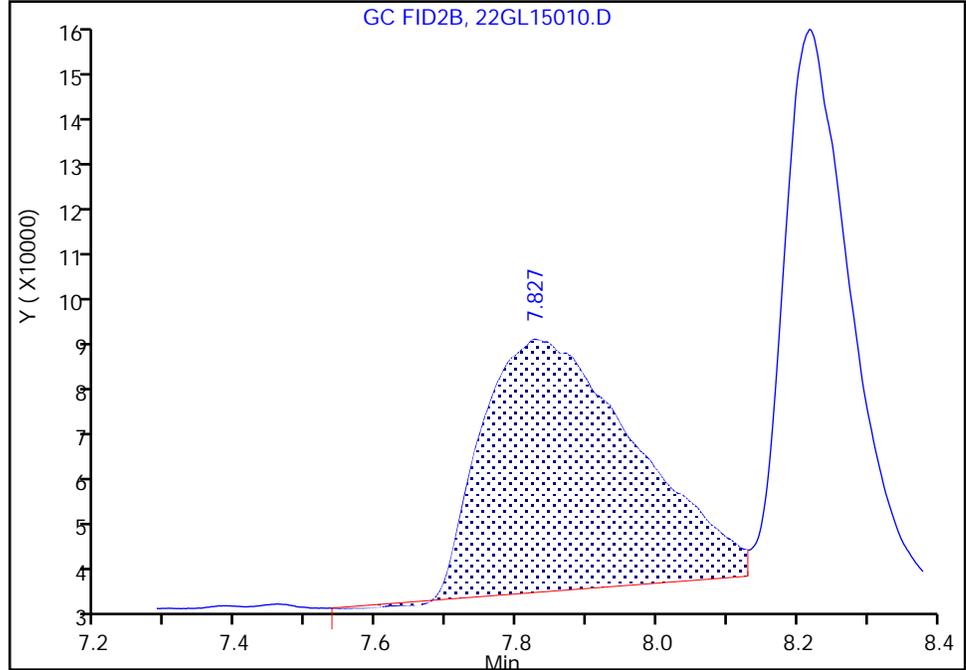
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D  
Injection Date: 15-Dec-2022 14:48:56 Instrument ID: CVGG2  
Lims ID: icis g3  
Client ID:  
Operator ID: ALS Bottle#: 10 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

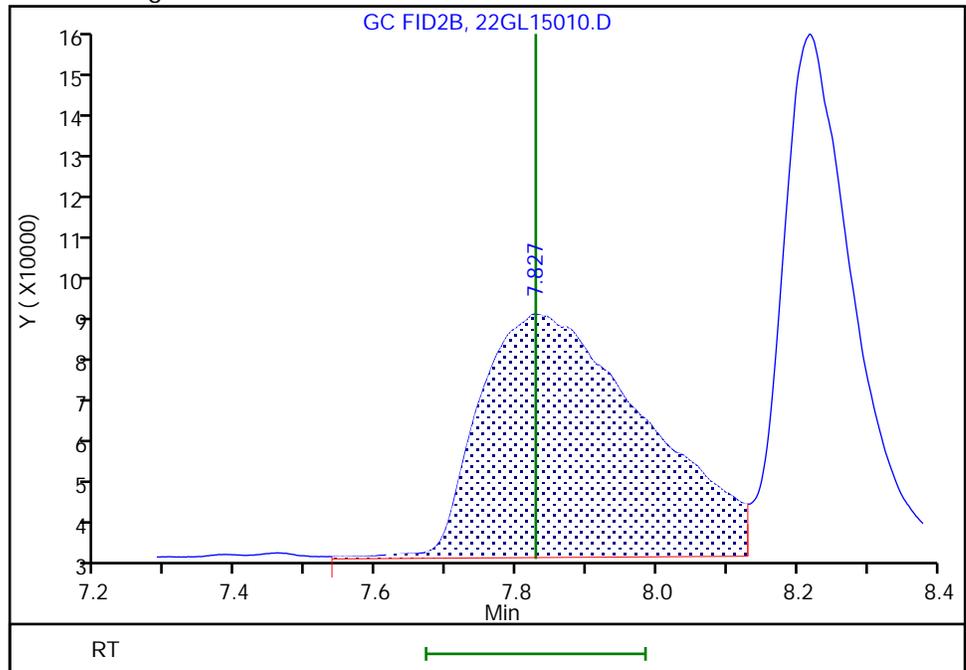
RT: 7.83  
Area: 829696  
Amount: 20.319088  
Amount Units: ug/ml

Processing Integration Results



RT: 7.83  
Area: 943990  
Amount: 21.503992  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:31:33  
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

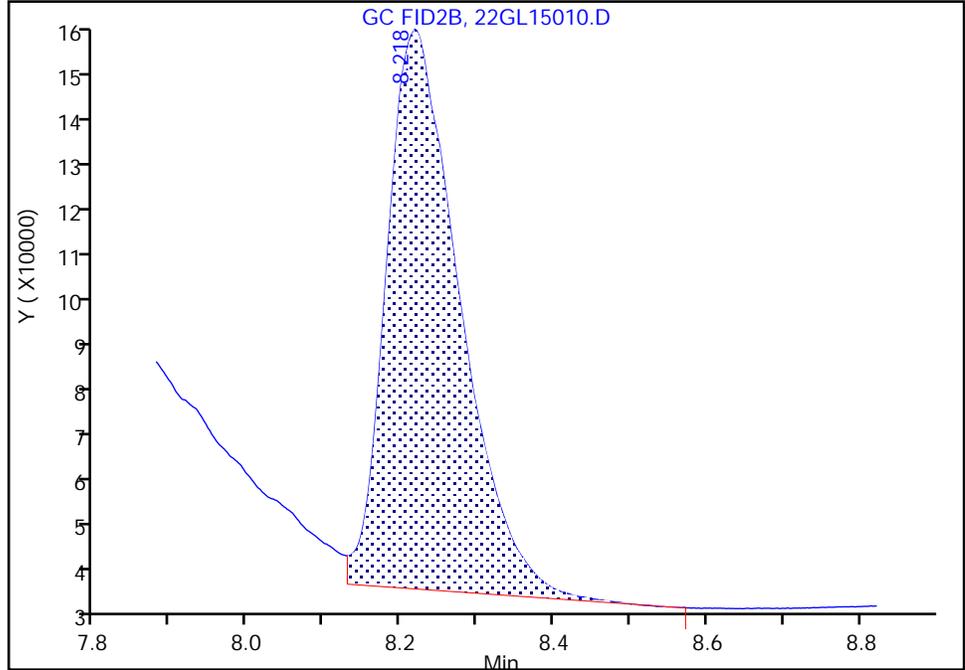
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D  
Injection Date: 15-Dec-2022 14:48:56 Instrument ID: CVGG2  
Lims ID: icis g3  
Client ID:  
Operator ID: ALS Bottle#: 10 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

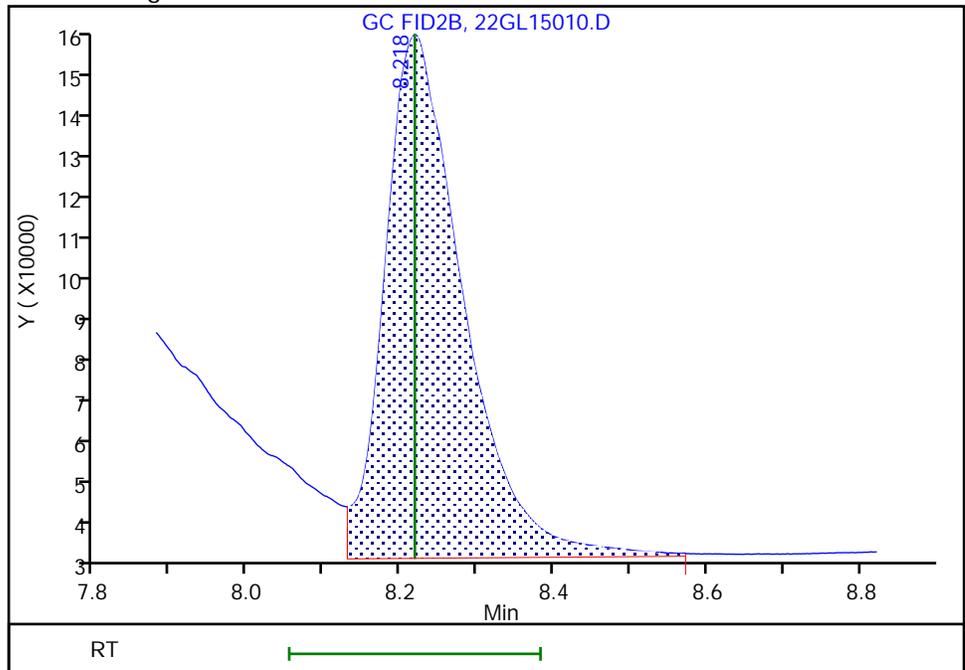
RT: 8.22  
Area: 793578  
Amount: 20.218674  
Amount Units: ug/ml

Processing Integration Results



RT: 8.22  
Area: 879839  
Amount: 20.593794  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:31:33  
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

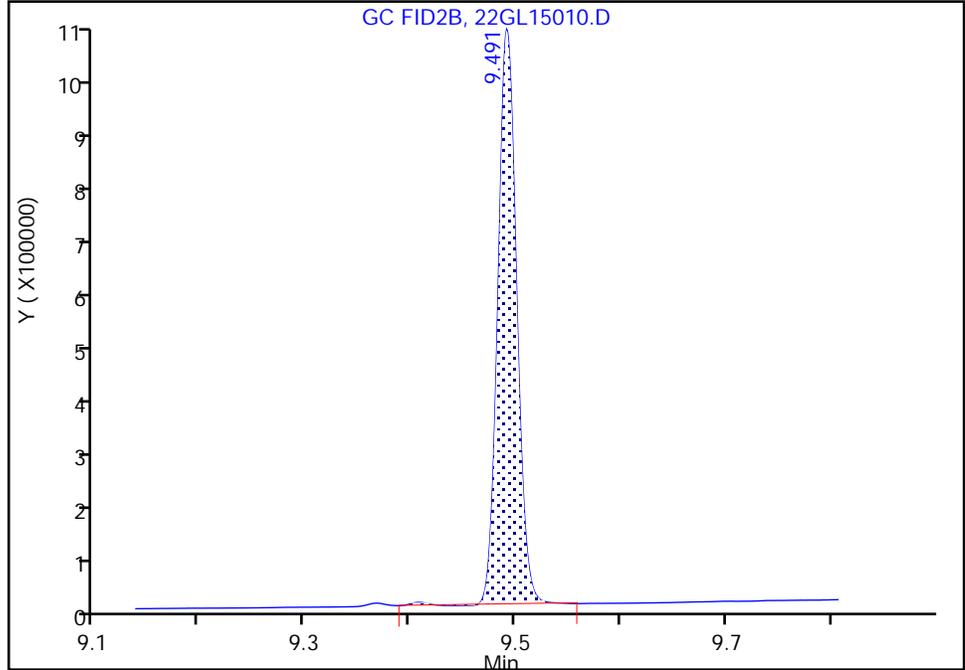
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D  
Injection Date: 15-Dec-2022 14:48:56 Instrument ID: CVGG2  
Lims ID: icis g3  
Client ID:  
Operator ID: ALS Bottle#: 10 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

8 2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5

Signal: 1

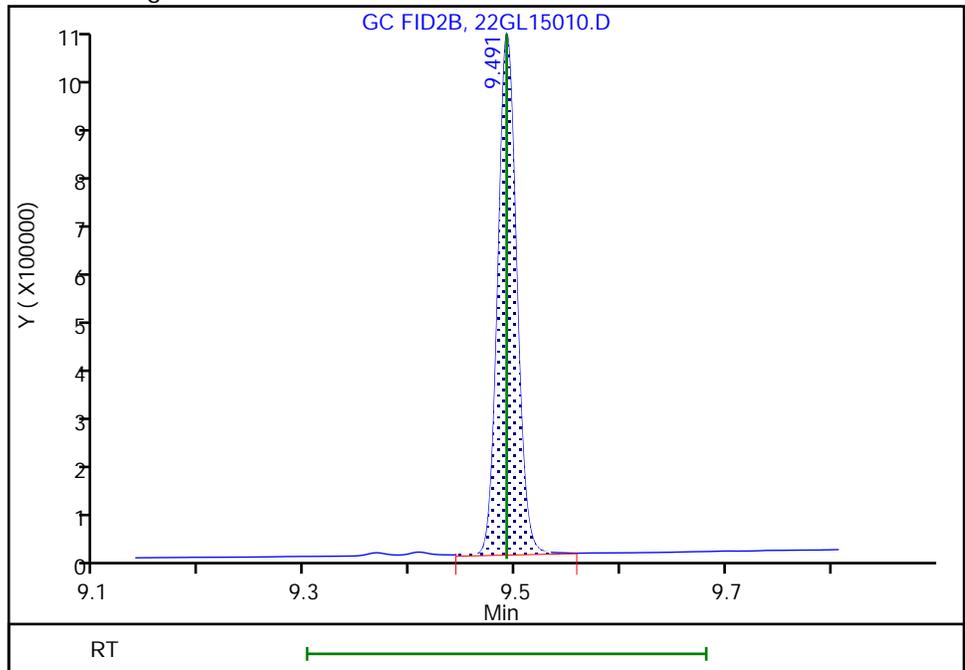
RT: 9.49  
Area: 1255008  
Amount: 19.623557  
Amount Units: ug/ml

Processing Integration Results



RT: 9.49  
Area: 1256158  
Amount: 19.638596  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:31:41  
Audit Action: Split an Integrated Peak

Audit Reason: Baseline Smoothing

Eurofins Savannah

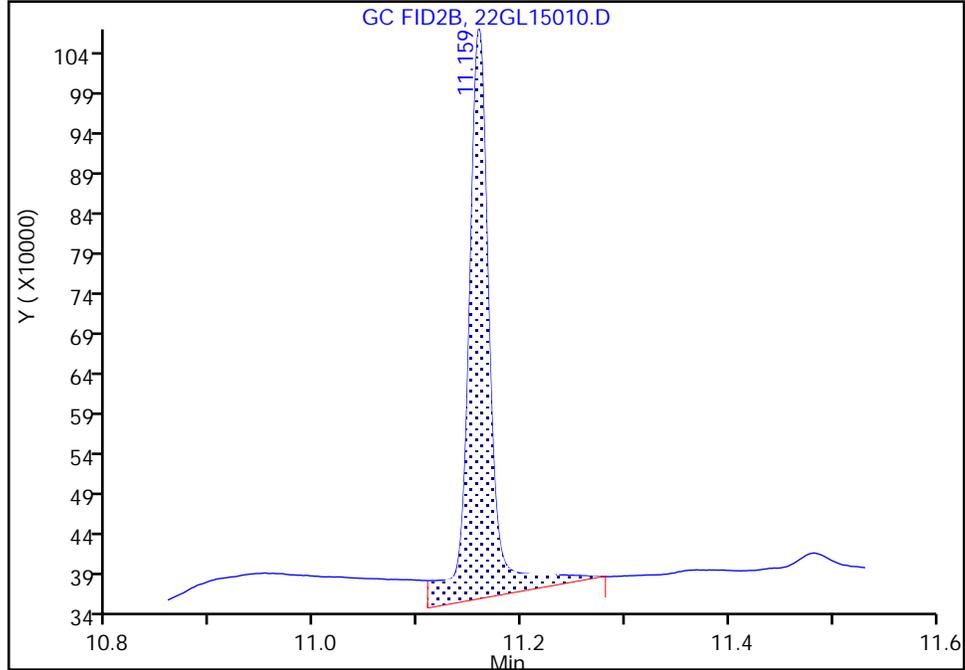
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D  
Injection Date: 15-Dec-2022 14:48:56 Instrument ID: CVGG2  
Lims ID: icis g3  
Client ID:  
Operator ID: ALS Bottle#: 10 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

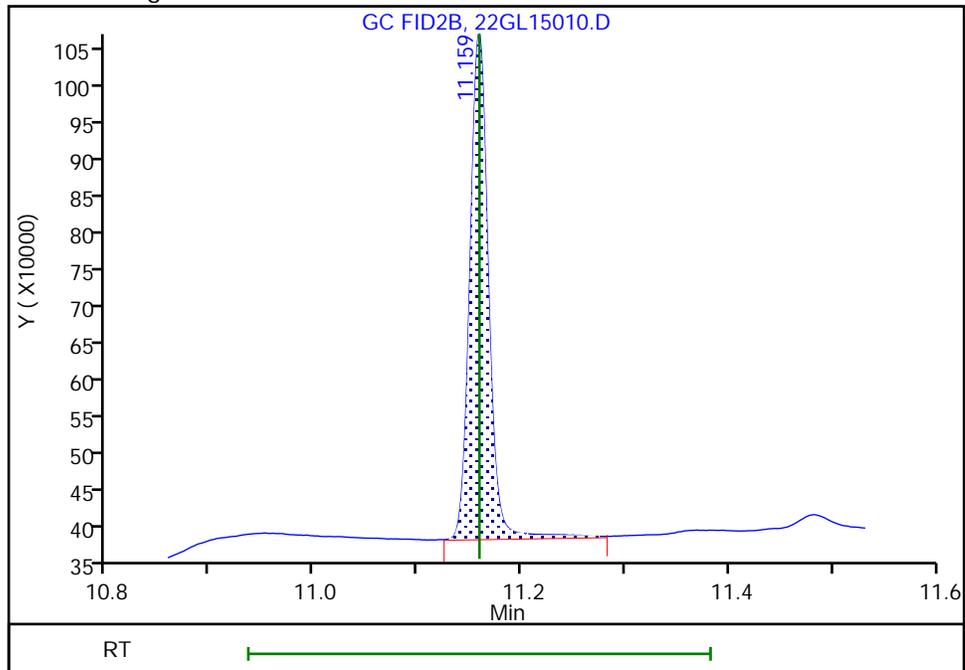
RT: 11.16  
Area: 1034865  
Amount: 21.453305  
Amount Units: ug/ml

Processing Integration Results



RT: 11.16  
Area: 858022  
Amount: 20.466776  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:28:33  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15011.D  
 Lims ID: ic g2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 15-Dec-2022 15:11:35 ALS Bottle#: 11 Worklist Smp#: 11  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082752-011  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 15-Dec-2022 18:35:05 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1659

First Level Reviewer: SWK1 Date: 15-Dec-2022 18:29:00

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.983	3.983	0.000	791260	10.0	10.7	
2 4-Hydroxy-4-methyl-2-pentanone						
4.806	4.806	0.000	827949	10.0	10.7	
3 2-Butoxyethanol						
5.175	5.175	0.000	858121	10.0	10.8	
* 4 n-Heptyl Alcohol						
5.708	5.708	0.000	7105611	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
6.830	6.831	-0.001	56303	10.0	9.92	
6 Propylene glycol						
7.837	7.827	0.010	434131	10.0	8.97	M
7 Ethylene glycol						
8.220	8.218	0.002	450038	10.0	9.55	M
8 2-(2-Butoxyethoxy)ethanol						
9.492	9.491	0.001	750029	10.0	10.6	
9 2,2'-Oxybisethanol						
10.177	10.176	0.001	475084	10.0	10.5	
10 Triethylene Glycol						
11.159	11.159	0.000	529150	10.0	10.6	M
11 Tetraethylene Glycol						
12.822	12.821	0.001	989281	20.0	20.5	

**QC Flag Legend**  
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG\_Gly\_CAL\_00047

Amount Added: 5.00

Units: uL

SG\_GLY\_ISTD\_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15011.D

Injection Date: 15-Dec-2022 15:11:35

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g2

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

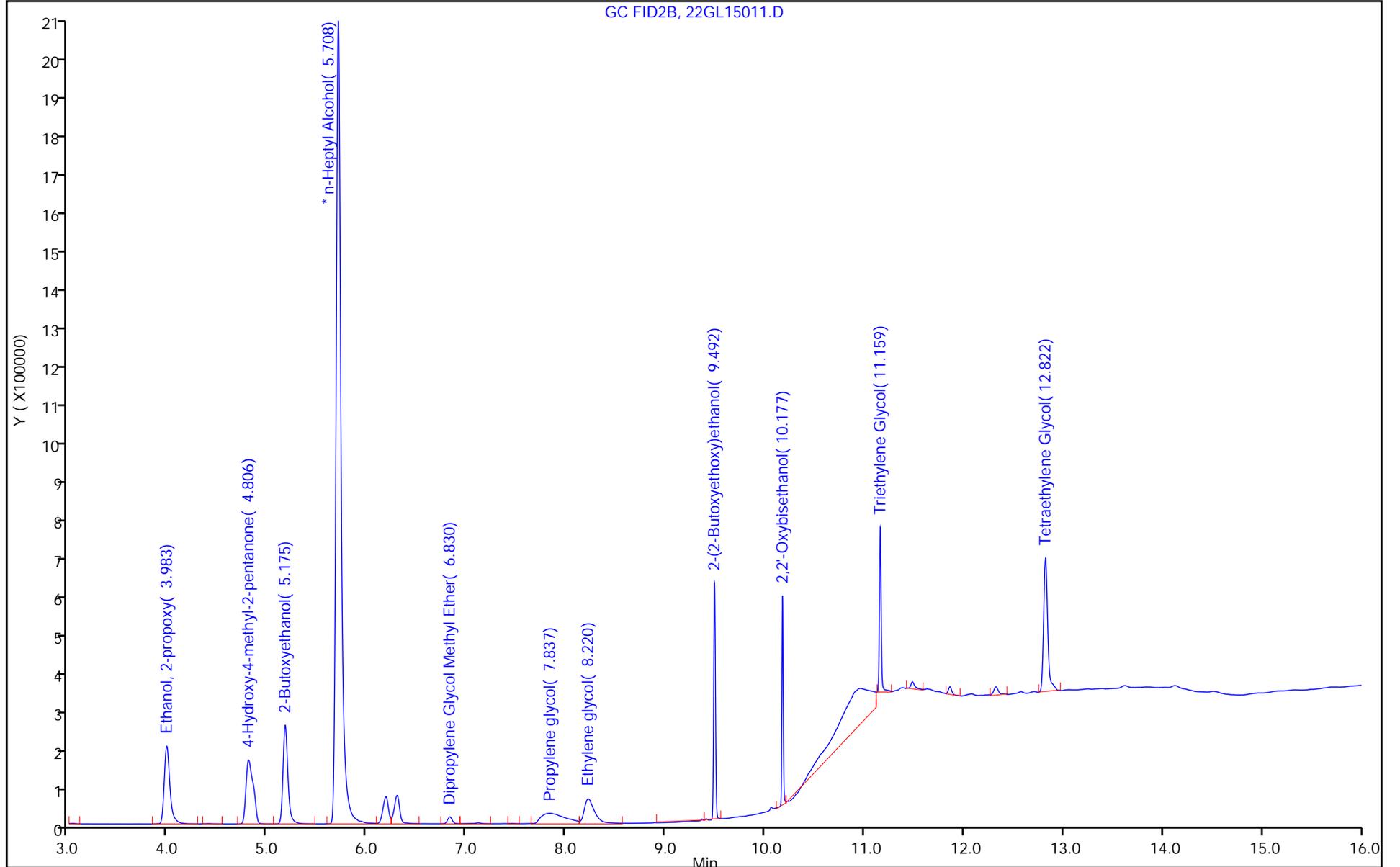
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

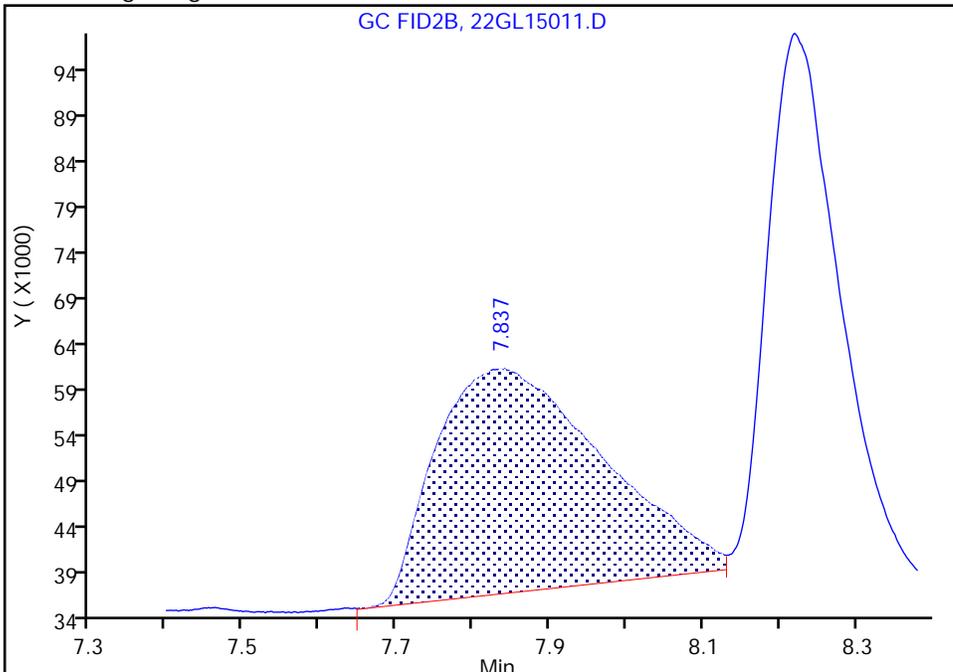
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15011.D  
Injection Date: 15-Dec-2022 15:11:35 Instrument ID: CVGG2  
Lims ID: ic g2  
Client ID:  
Operator ID: ALS Bottle#: 11 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

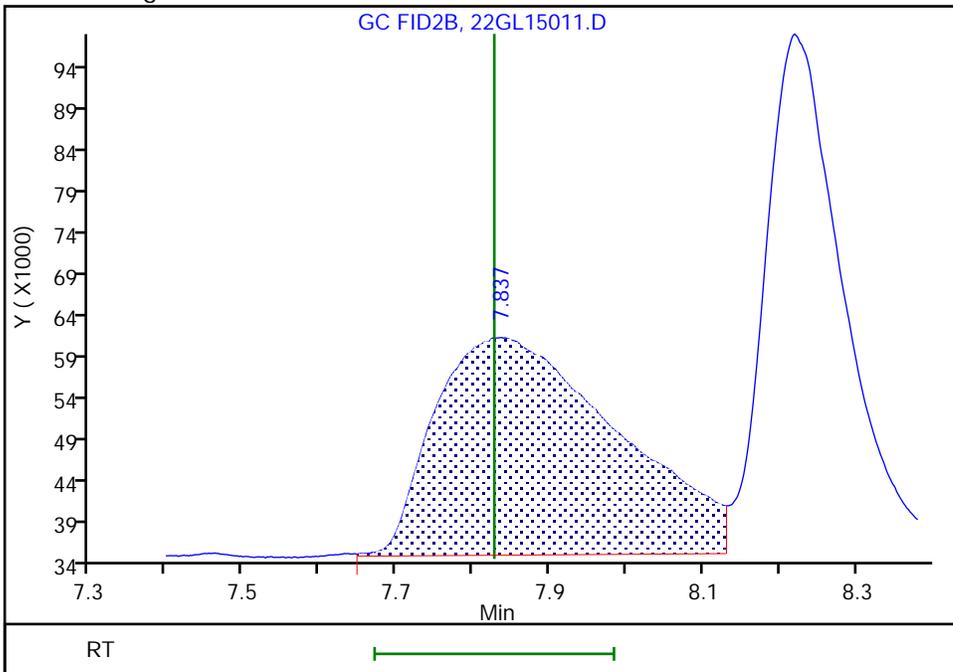
RT: 7.84  
Area: 368185  
Amount: 8.381609  
Amount Units: ug/ml

Processing Integration Results



RT: 7.84  
Area: 434131  
Amount: 8.968420  
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

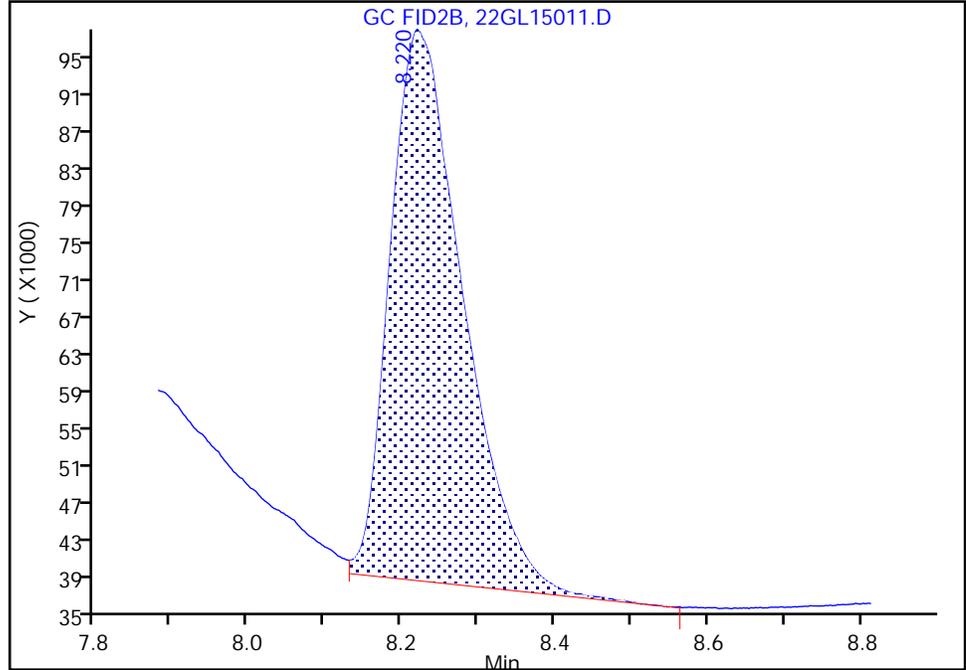
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15011.D  
Injection Date: 15-Dec-2022 15:11:35 Instrument ID: CVGG2  
Lims ID: ic g2  
Client ID:  
Operator ID: ALS Bottle#: 11 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

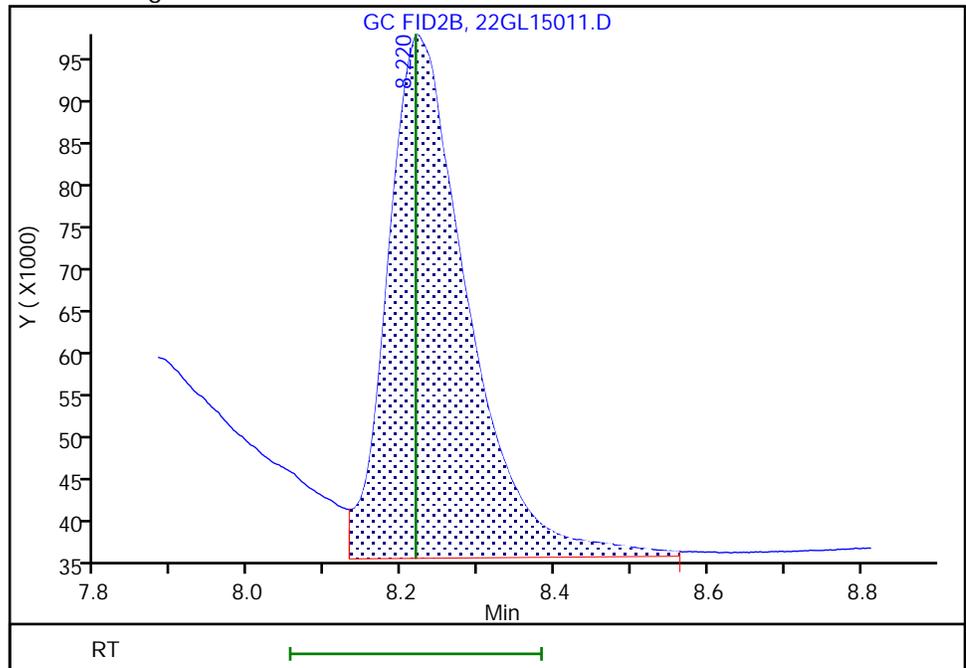
RT: 8.22  
Area: 392105  
Amount: 9.266320  
Amount Units: ug/ml

Processing Integration Results



RT: 8.22  
Area: 450038  
Amount: 9.552692  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:31:12  
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Euofins Savannah

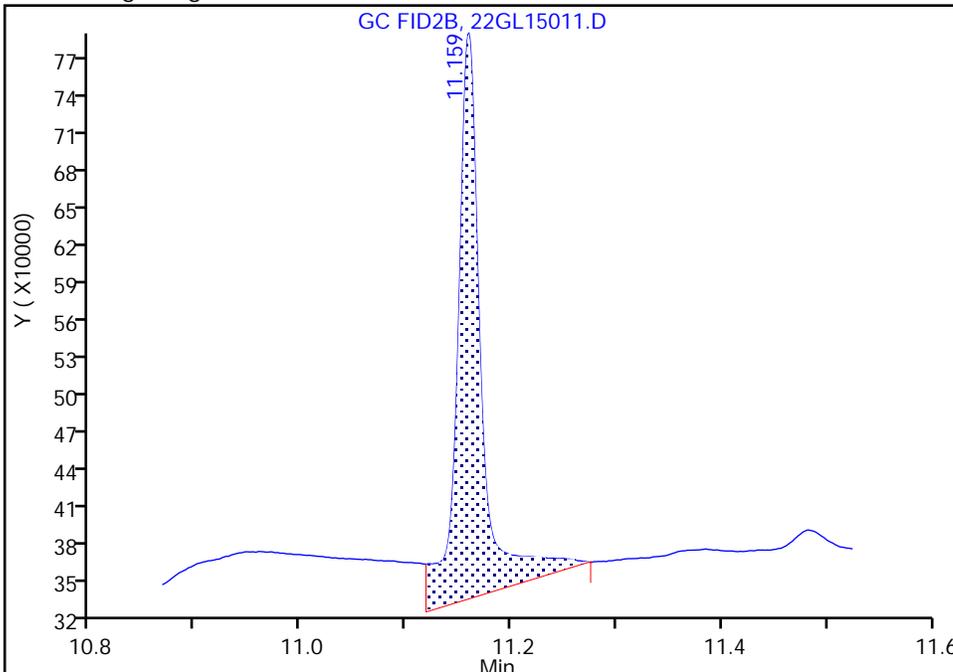
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15011.D  
Injection Date: 15-Dec-2022 15:11:35 Instrument ID: CVGG2  
Lims ID: ic g2  
Client ID:  
Operator ID: ALS Bottle#: 11 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

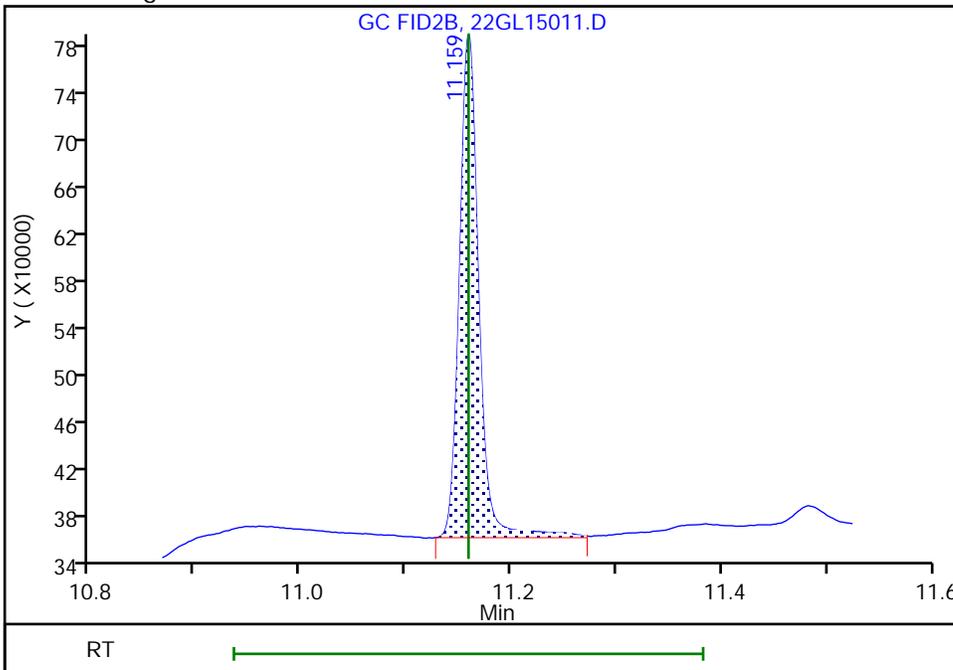
RT: 11.16  
Area: 706873  
Amount: 10.907512  
Amount Units: ug/ml

Processing Integration Results



RT: 11.16  
Area: 529150  
Amount: 10.564312  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:28:58  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Lims ID: ic g1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 15-Dec-2022 15:34:13 ALS Bottle#: 12 Worklist Smp#: 12  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082752-012  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 15-Dec-2022 18:35:06 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1659

First Level Reviewer: SWK1 Date: 15-Dec-2022 18:29:27

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.982	3.983	-0.001	416727	5.00	5.61	
2 4-Hydroxy-4-methyl-2-pentanone						
4.808	4.806	0.002	434849	5.00	5.59	
3 2-Butoxyethanol						
5.175	5.175	0.000	456743	5.00	5.69	
* 4 n-Heptyl Alcohol						
5.708	5.708	0.000	7165368	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
6.830	6.831	-0.001	30872	5.00	5.39	
6 Propylene glycol						
7.822	7.827	-0.005	270235	5.00	5.54	M
7 Ethylene glycol						
8.221	8.218	0.003	280066	5.00	5.90	M
8 2-(2-Butoxyethoxy)ethanol						
9.492	9.491	0.001	405977	5.00	5.71	
9 2,2'-Oxybisethanol						
10.177	10.176	0.001	256938	5.00	5.63	
10 Triethylene Glycol						
11.157	11.159	-0.002	291568	5.00	4.86	M
11 Tetraethylene Glycol						
12.819	12.821	-0.002	557362	10.0	9.92	

QC Flag Legend  
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG\_Gly\_CAL\_00047

Amount Added: 2.50

Units: uL

SG\_GLY\_ISTD\_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Injection Date: 15-Dec-2022 15:34:13

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g1

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

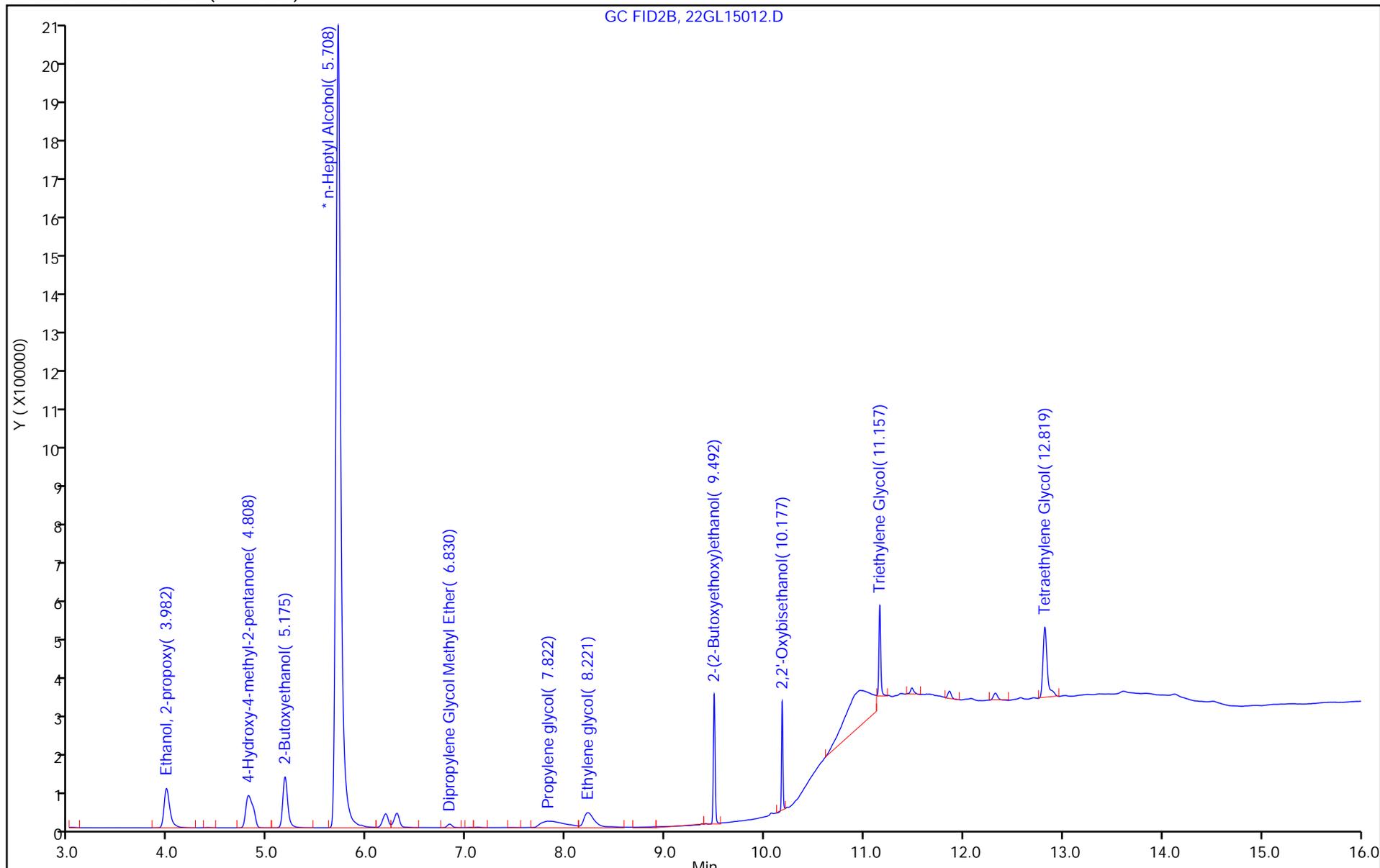
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

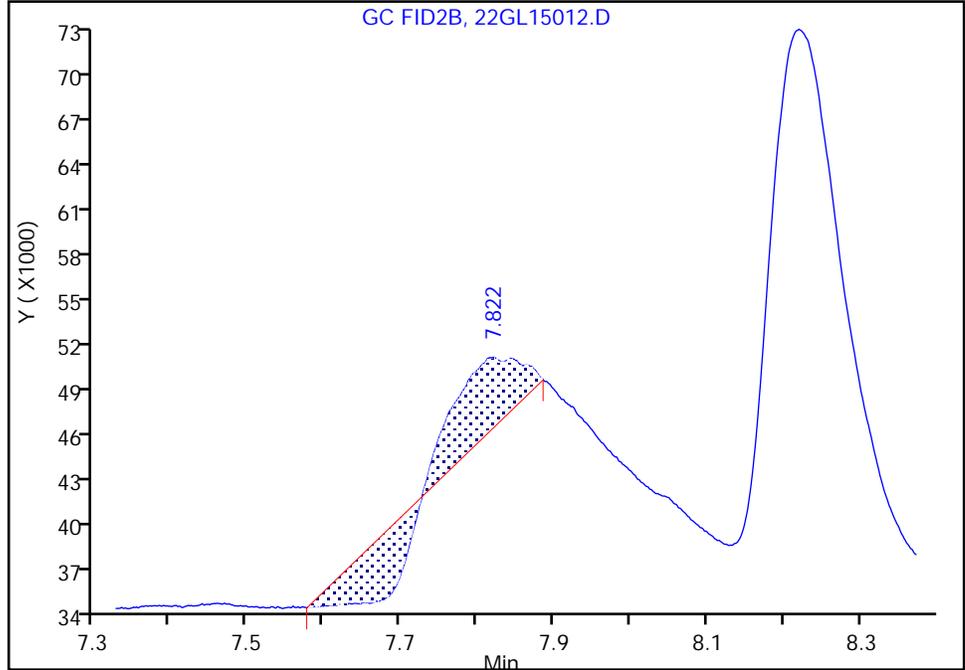
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
Injection Date: 15-Dec-2022 15:34:13 Instrument ID: CVGG2  
Lims ID: ic g1  
Client ID:  
Operator ID: ALS Bottle#: 12 Worklist Smp#: 12  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

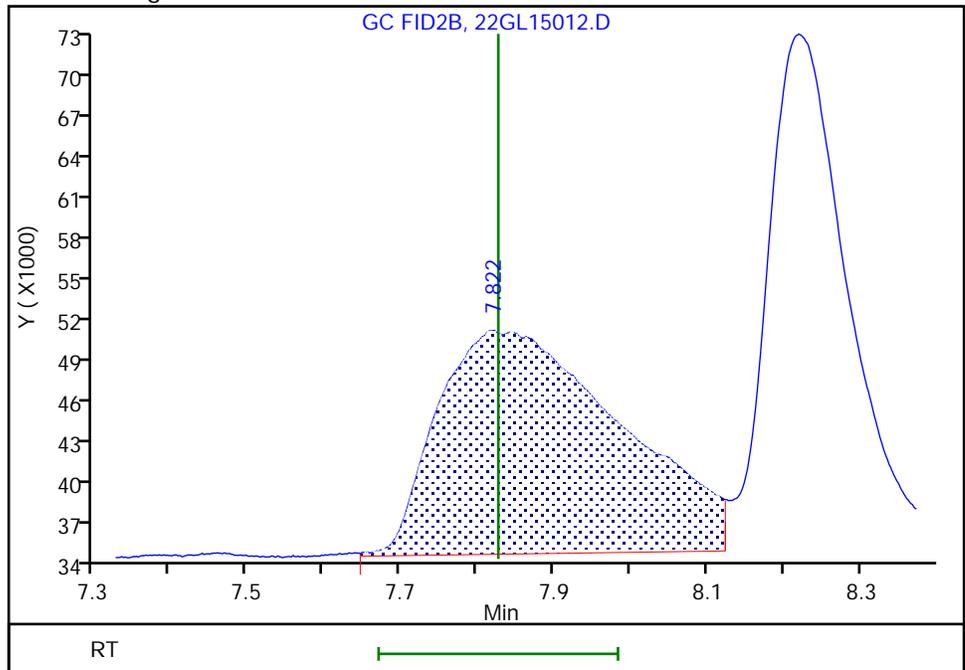
RT: 7.82  
Area: 7878  
Amount: 0.221591  
Amount Units: ug/ml

Processing Integration Results



RT: 7.82  
Area: 270235  
Amount: 5.536046  
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

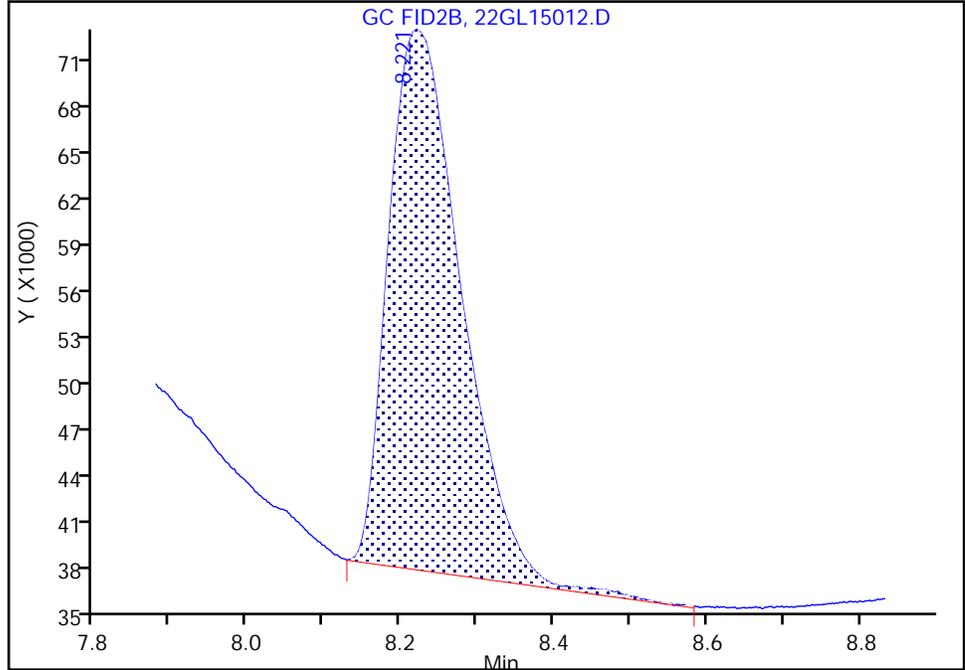
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
Injection Date: 15-Dec-2022 15:34:13 Instrument ID: CVGG2  
Lims ID: ic g1  
Client ID:  
Operator ID: ALS Bottle#: 12 Worklist Smp#: 12  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

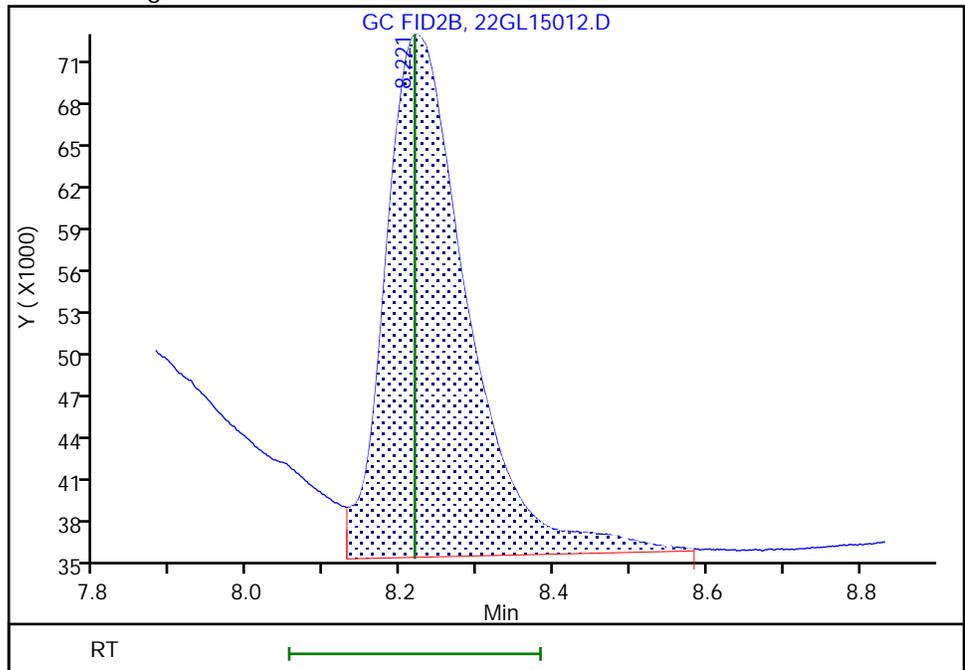
RT: 8.22  
Area: 230185  
Amount: 5.613141  
Amount Units: ug/ml

Processing Integration Results



RT: 8.22  
Area: 280066  
Amount: 5.895219  
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

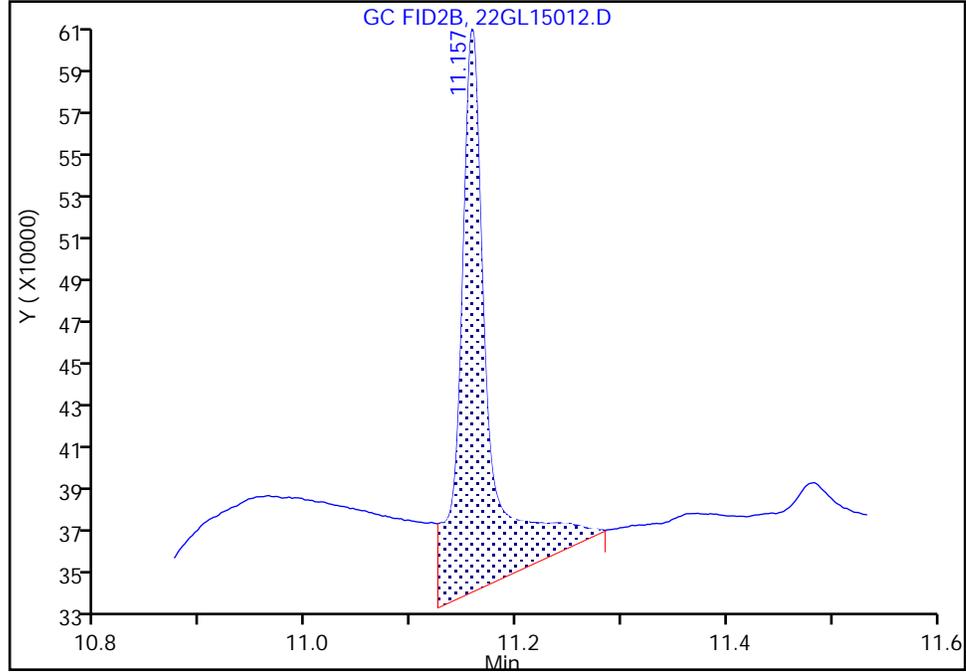
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
Injection Date: 15-Dec-2022 15:34:13 Instrument ID: CVGG2  
Lims ID: ic g1  
Client ID:  
Operator ID: ALS Bottle#: 12 Worklist Smp#: 12  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

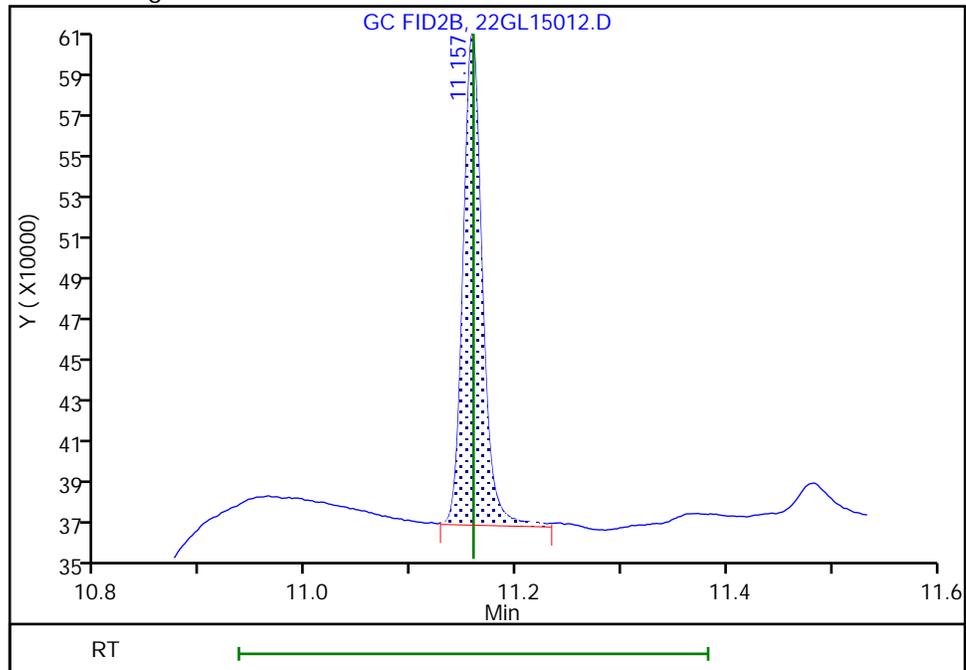
RT: 11.16  
Area: 486550  
Amount: 5.773755  
Amount Units: ug/ml

Processing Integration Results



RT: 11.16  
Area: 291568  
Amount: 4.864580  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:29:18  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing  
Page 93 of 159

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 680-755296/13 Calibration Date: 12/15/2022 15:56  
 Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34  
 Lab File ID: 22GL15013.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.5186	0.5767		22.2	20.0	11.2	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.5430	0.6080		22.4	20.0	12.0	20.0
2-Butoxyethanol	Ave	0.5604	0.6527		23.3	20.0	16.5	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0399	0.0509		25.5	20.0	27.3*	20.0
Propylene glycol	Ave	0.3406	0.3726		21.9	20.0	9.4	20.0
Ethylene glycol	Ave	0.3315	0.3700		22.3	20.0	11.6	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.4963	0.5582		22.5	20.0	12.5	20.0
2,2'-Oxybisethanol	Ave	0.3183	0.3394		21.3	20.0	6.6	20.0
Triethylene Glycol	Lin2		0.3720		23.1	20.0	15.5	20.0
Tetraethylene Glycol	Lin2		0.3468		44.4	40.0	11.0	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 680-755296/13 Calibration Date: 12/15/2022 15:56  
 Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34  
 Lab File ID: 22GL15013.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	3.98	3.90	4.06
4-Hydroxy-4-methyl-2-pentanone	4.81	4.71	4.90
2-Butoxyethanol	5.18	5.07	5.28
Dipropylene Glycol Methyl Ether	6.83	6.70	6.97
Propylene glycol	7.82	7.67	7.98
Ethylene glycol	8.21	8.05	8.38
2-(2-Butoxyethoxy)ethanol	9.49	9.30	9.68
2,2'-Oxybisethanol	10.18	9.97	10.38
Triethylene Glycol	11.16	10.94	11.38
Tetraethylene Glycol	12.82	12.57	13.08

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15013.D  
 Lims ID: icv gly  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 15-Dec-2022 15:56:59 ALS Bottle#: 13 Worklist Smp#: 13  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082752-013  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 15-Dec-2022 18:45:54 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1659

First Level Reviewer: SWK1 Date: 15-Dec-2022 18:29:52

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.981	3.983	-0.002	1804032	20.0	22.2	
2 4-Hydroxy-4-methyl-2-pentanone						
4.808	4.806	0.002	1902097	20.0	22.4	
3 2-Butoxyethanol						
5.175	5.175	0.000	2041849	20.0	23.3	
* 4 n-Heptyl Alcohol						
5.709	5.708	0.001	7820966	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
6.831	6.831	0.000	159083	20.0	25.5	
6 Propylene glycol						
7.820	7.827	-0.007	1165778	20.0	21.9	
7 Ethylene glycol						
8.214	8.218	-0.004	1157642	20.0	22.3	
8 2-(2-Butoxyethoxy)ethanol						
9.492	9.491	0.001	1746317	20.0	22.5	
9 2,2'-Oxybisethanol						
10.176	10.176	0.000	1061785	20.0	21.3	
10 Triethylene Glycol						
11.158	11.159	-0.001	1163679	20.0	23.1	M
11 Tetraethylene Glycol						
12.819	12.821	-0.002	2170110	40.0	44.4	

QC Flag Legend  
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG\_GlyICV\_00056

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15013.D

Injection Date: 15-Dec-2022 15:56:59

Instrument ID: CVGG2

Operator ID:

Lims ID: icv gly

Worklist Smp#: 13

Client ID:

Injection Vol: 1.0 ul

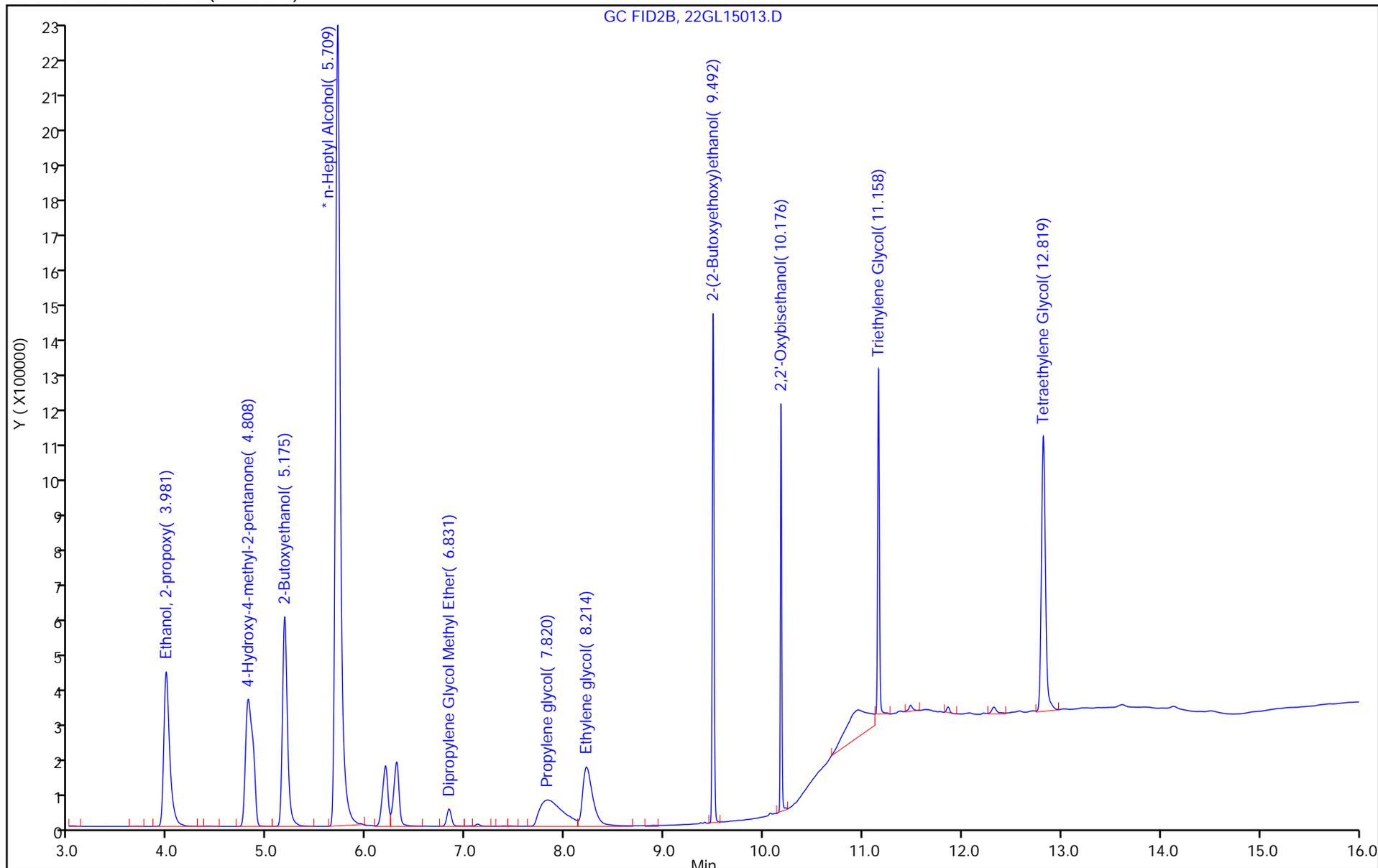
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

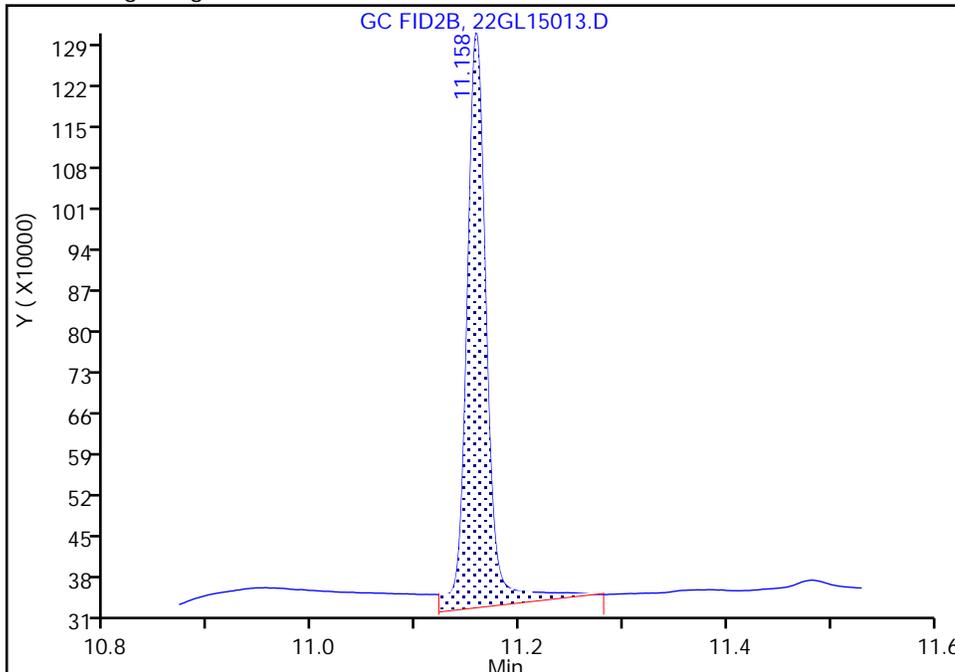
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15013.D  
Injection Date: 15-Dec-2022 15:56:59 Instrument ID: CVGG2  
Lims ID: icv gly  
Client ID:  
Operator ID: ALS Bottle#: 13 Worklist Smp#: 13  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

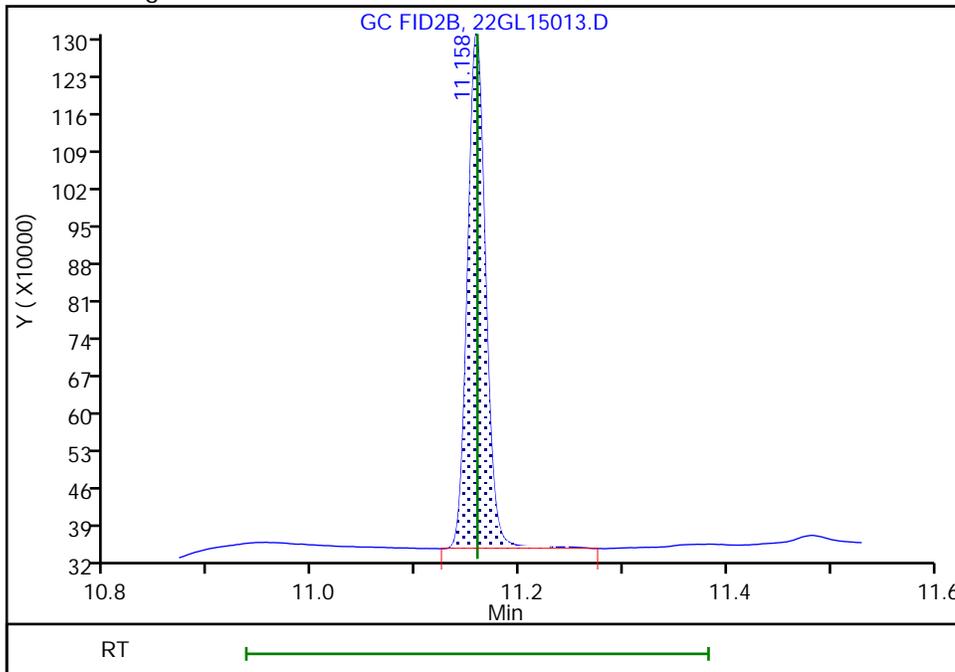
Processing Integration Results

RT: 11.16  
Area: 1308485  
Amount: 26.229441  
Amount Units: ug/ml



Manual Integration Results

RT: 11.16  
Area: 1163679  
Amount: 23.105187  
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:29:42  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 680-755535/5 Calibration Date: 12/16/2022 17:20  
 Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34  
 Lab File ID: 22GL16005.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.5186	0.6061		23.4	20.0	16.9	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.5430	0.6398		23.6	20.0	17.8	20.0
2-Butoxyethanol	Ave	0.5604	0.6832		24.4	20.0	21.9*	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0399	0.0534		26.7	20.0	33.6*	20.0
Propylene glycol	Ave	0.3406	0.4020		23.6	20.0	18.0	20.0
Ethylene glycol	Ave	0.3315	0.3888		23.5	20.0	17.3	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.4963	0.5861		23.6	20.0	18.1	20.0
2,2'-Oxybisethanol	Ave	0.3183	0.3577		22.5	20.0	12.4	20.0
Triethylene Glycol	Lin2		0.3804		23.7	20.0	18.4	20.0
Tetraethylene Glycol	Lin2		0.3643		46.8	40.0	17.0	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 680-755535/5 Calibration Date: 12/16/2022 17:20  
 Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34  
 Lab File ID: 22GL16005.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	4.01	3.93	4.09
4-Hydroxy-4-methyl-2-pentanone	4.84	4.74	4.94
2-Butoxyethanol	5.21	5.10	5.31
Dipropylene Glycol Methyl Ether	6.86	6.73	7.00
Propylene glycol	7.84	7.68	7.99
Ethylene glycol	8.24	8.08	8.41
2-(2-Butoxyethoxy)ethanol	9.50	9.31	9.69
2,2'-Oxybisethanol	10.19	9.98	10.39
Triethylene Glycol	11.17	10.94	11.39
Tetraethylene Glycol	12.84	12.58	13.09

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16005.D  
 Lims ID: ccv g3  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 16-Dec-2022 17:20:21 ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082779-005  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 17-Dec-2022 11:05:40 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1633

First Level Reviewer: SWK1 Date: 17-Dec-2022 10:56:16

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	4.011	4.011	0.000	1396651	20.0	23.4
2 4-Hydroxy-4-methyl-2-pentanone	4.839	4.839	0.000	1474343	20.0	23.6
3 2-Butoxyethanol	5.206	5.206	0.000	1574313	20.0	24.4
* 4 n-Heptyl Alcohol	5.738	5.738	0.000	5760737	50.0	50.0
5 Dipropylene Glycol Methyl Ether	6.863	6.863	0.000	122995	20.0	26.7
6 Propylene glycol	7.837	7.837	0.000	926262	20.0	23.6
7 Ethylene glycol	8.243	8.243	0.000	895863	20.0	23.5
8 2-(2-Butoxyethoxy)ethanol	9.504	9.504	0.000	1350594	20.0	23.6
9 2,2'-Oxybisethanol	10.185	10.185	0.000	824349	20.0	22.5
10 Triethylene Glycol	11.167	11.167	0.000	876573	20.0	23.7
11 Tetraethylene Glycol	12.835	12.835	0.000	1678714	40.0	46.8

QC Flag Legend  
Processing Flags

Reagents:

SG\_Gly\_CAL\_00047

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16005.D

Injection Date: 16-Dec-2022 17:20:21

Instrument ID: CVGG2

Operator ID:

Lims ID: ccv g3

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

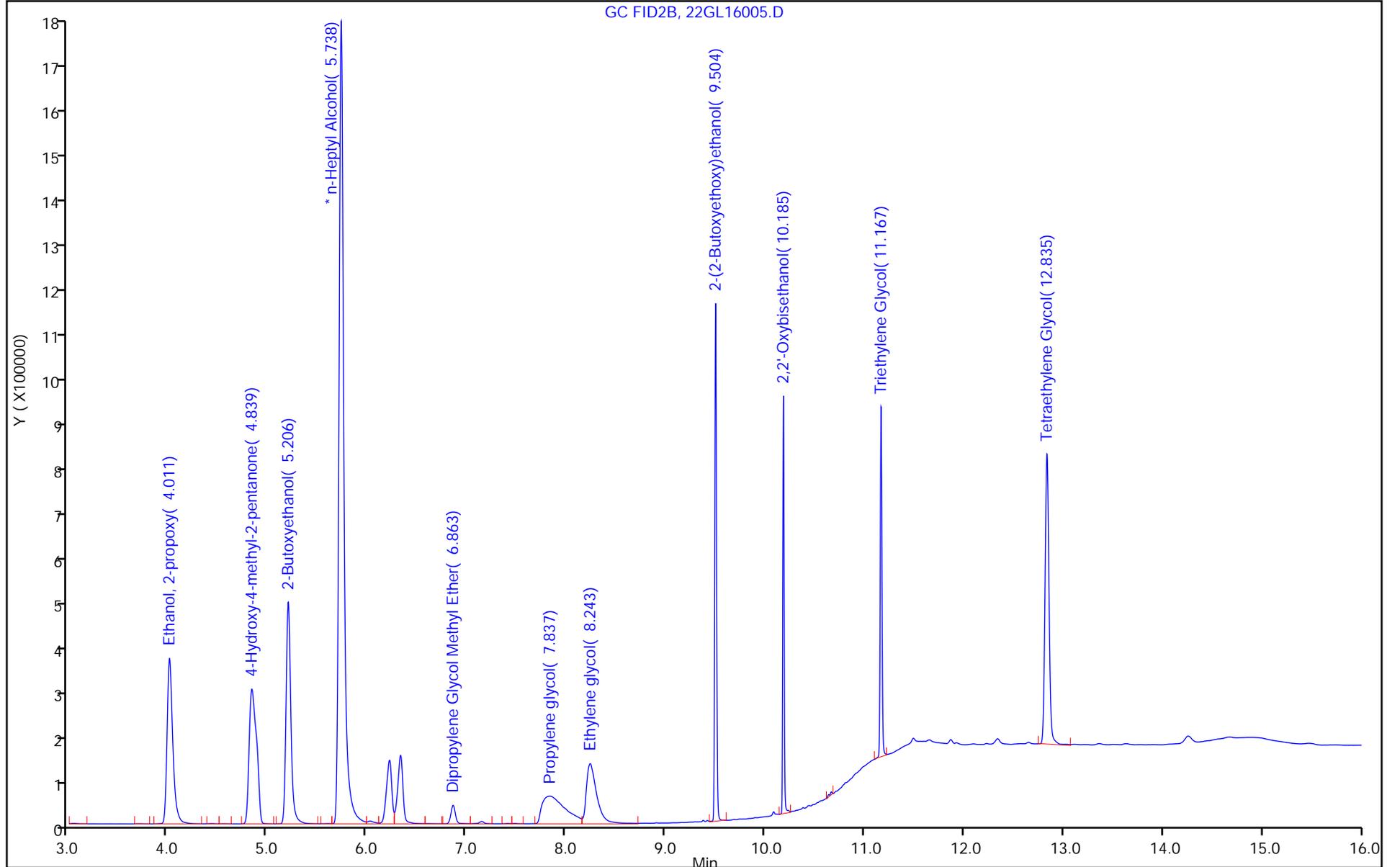
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 680-755535/28 Calibration Date: 12/17/2022 02:09  
 Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34  
 Lab File ID: 22GL16028.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.5186	0.5781		22.3	20.0	11.5	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.5430	0.5892		21.7	20.0	8.5	20.0
2-Butoxyethanol	Ave	0.5604	0.6593		23.5	20.0	17.7	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0399	0.0513		25.7	20.0	28.6*	20.0
Propylene glycol	Ave	0.3406	0.3768		22.1	20.0	10.6	20.0
Ethylene glycol	Ave	0.3315	0.3516		21.2	20.0	6.1	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.4963	0.5676		22.9	20.0	14.4	20.0
2,2'-Oxybisethanol	Ave	0.3183	0.3037		19.1	20.0	-4.6	20.0
Triethylene Glycol	Lin2		0.2817		17.0	20.0	-14.9	20.0
Tetraethylene Glycol	Lin2		0.2159		26.3	40.0	-34.2*	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 680-755535/28 Calibration Date: 12/17/2022 02:09  
 Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34  
 Lab File ID: 22GL16028.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	4.02	3.94	4.10
4-Hydroxy-4-methyl-2-pentanone	4.84	4.75	4.94
2-Butoxyethanol	5.21	5.11	5.31
Dipropylene Glycol Methyl Ether	6.87	6.73	7.00
Propylene glycol	7.83	7.67	7.99
Ethylene glycol	8.24	8.07	8.40
2-(2-Butoxyethoxy)ethanol	9.51	9.32	9.70
2,2'-Oxybisethanol	10.19	9.98	10.39
Triethylene Glycol	11.17	10.94	11.39
Tetraethylene Glycol	12.84	12.58	13.09

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16028.D  
 Lims ID: ccv g3  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 17-Dec-2022 02:09:10 ALS Bottle#: 28 Worklist Smp#: 28  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082779-028  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 17-Dec-2022 11:05:41 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1633

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	4.017	4.017	0.000	1789713	20.0	22.3
2 4-Hydroxy-4-methyl-2-pentanone	4.844	4.844	0.000	1823903	20.0	21.7
3 2-Butoxyethanol	5.210	5.210	0.000	2041077	20.0	23.5
* 4 n-Heptyl Alcohol	5.742	5.742	0.000	7739063	50.0	50.0
5 Dipropylene Glycol Methyl Ether	6.867	6.867	0.000	158952	20.0	25.7
6 Propylene glycol	7.828	7.828	0.000	1166330	20.0	22.1
7 Ethylene glycol	8.239	8.239	0.000	1088342	20.0	21.2
8 2-(2-Butoxyethoxy)ethanol	9.505	9.505	0.000	1757164	20.0	22.9
9 2,2'-Oxybisethanol	10.186	10.186	0.000	940250	20.0	19.1
10 Triethylene Glycol	11.167	11.167	0.000	872098	20.0	17.0
11 Tetraethylene Glycol	12.835	12.835	0.000	1336993	40.0	26.3

Reagents:

SG\_Gly\_CAL\_00047 Amount Added: 10.00 Units: uL  
 SG\_GLY\_ISTD\_00099 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16028.D

Injection Date: 17-Dec-2022 02:09:10

Instrument ID: CVGG2

Operator ID:

Lims ID: ccv g3

Worklist Smp#: 28

Client ID:

Injection Vol: 1.0 ul

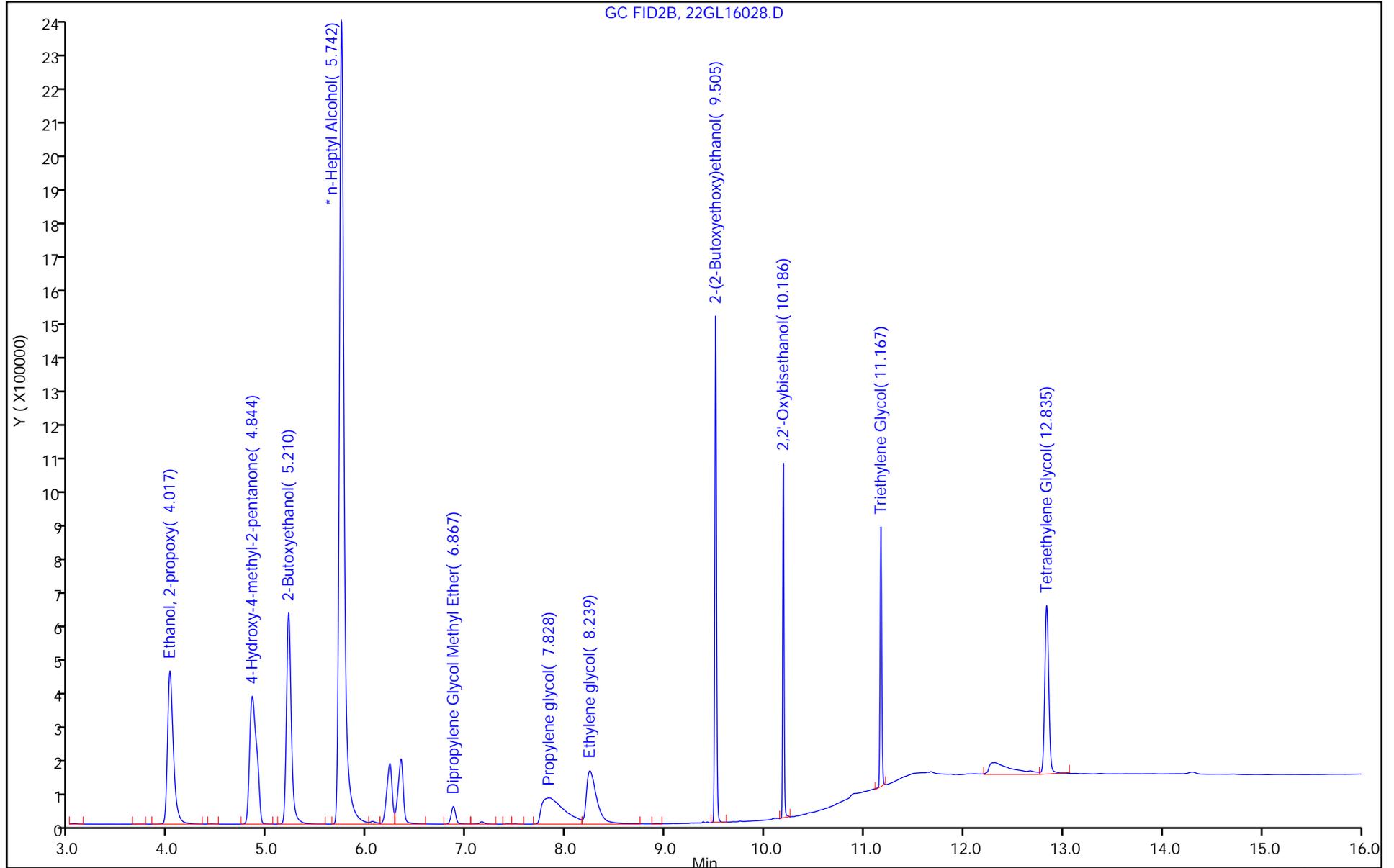
Dil. Factor: 1.0000

ALS Bottle#: 28

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 680-755698/6 Calibration Date: 12/17/2022 18:28  
 Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34  
 Lab File ID: 22GL17006.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.5186	0.5707		22.0	20.0	10.0	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.5430	0.6036		22.2	20.0	11.2	20.0
2-Butoxyethanol	Ave	0.5604	0.6140		21.9	20.0	9.6	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0399	0.0509		25.5	20.0	27.5*	20.0
Propylene glycol	Ave	0.3406	0.4207		24.7	20.0	23.5*	20.0
Ethylene glycol	Ave	0.3315	0.3745		22.6	20.0	13.0	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.4963	0.5651		22.8	20.0	13.9	20.0
2,2'-Oxybisethanol	Ave	0.3183	0.3584		22.5	20.0	12.6	20.0
Triethylene Glycol	Lin2		0.3380		20.8	20.0	4.1	20.0
Tetraethylene Glycol	Lin2		0.3329		42.5	40.0	6.2	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 680-755698/6 Calibration Date: 12/17/2022 18:28  
 Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34  
 Lab File ID: 22GL17006.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	4.02	3.94	4.10
4-Hydroxy-4-methyl-2-pentanone	4.84	4.74	4.94
2-Butoxyethanol	5.21	5.10	5.31
Dipropylene Glycol Methyl Ether	6.86	6.73	7.00
Propylene glycol	7.81	7.65	7.97
Ethylene glycol	8.24	8.07	8.40
2-(2-Butoxyethoxy)ethanol	9.50	9.31	9.69
2,2'-Oxybisethanol	10.19	9.98	10.39
Triethylene Glycol	11.17	10.94	11.39
Tetraethylene Glycol	12.84	12.58	13.09

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\22GL17006.D  
 Lims ID: ccvis g3  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 17-Dec-2022 18:28:59 ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082806-006  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 18-Dec-2022 10:32:37 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1606

First Level Reviewer: SK9U Date: 17-Dec-2022 19:57:50

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
4.018	4.018	0.000	1387563	20.0	22.0	
2 4-Hydroxy-4-methyl-2-pentanone						
4.839	4.839	0.000	1467608	20.0	22.2	
3 2-Butoxyethanol						
5.208	5.208	0.000	1492941	20.0	21.9	
* 4 n-Heptyl Alcohol						
5.738	5.738	0.000	6078535	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
6.863	6.863	0.000	123838	20.0	25.5	
6 Propylene glycol						
7.809	7.809	0.000	1022964	20.0	24.7	
7 Ethylene glycol						
8.235	8.235	0.000	910478	20.0	22.6	
8 2-(2-Butoxyethoxy)ethanol						
9.503	9.503	0.000	1373894	20.0	22.8	
9 2,2'-Oxybisethanol						
10.186	10.186	0.000	871421	20.0	22.5	
10 Triethylene Glycol						
11.167	11.167	0.000	821769	20.0	20.8	
11 Tetraethylene Glycol						
12.835	12.835	0.000	1619024	40.0	42.5	

### QC Flag Legend

Processing Flags

Reagents:

SG\_GlyICV\_00056

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\22GL17006.D

Injection Date: 17-Dec-2022 18:28:59

Instrument ID: CVGG2

Operator ID:

Lims ID: ccvis g3

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

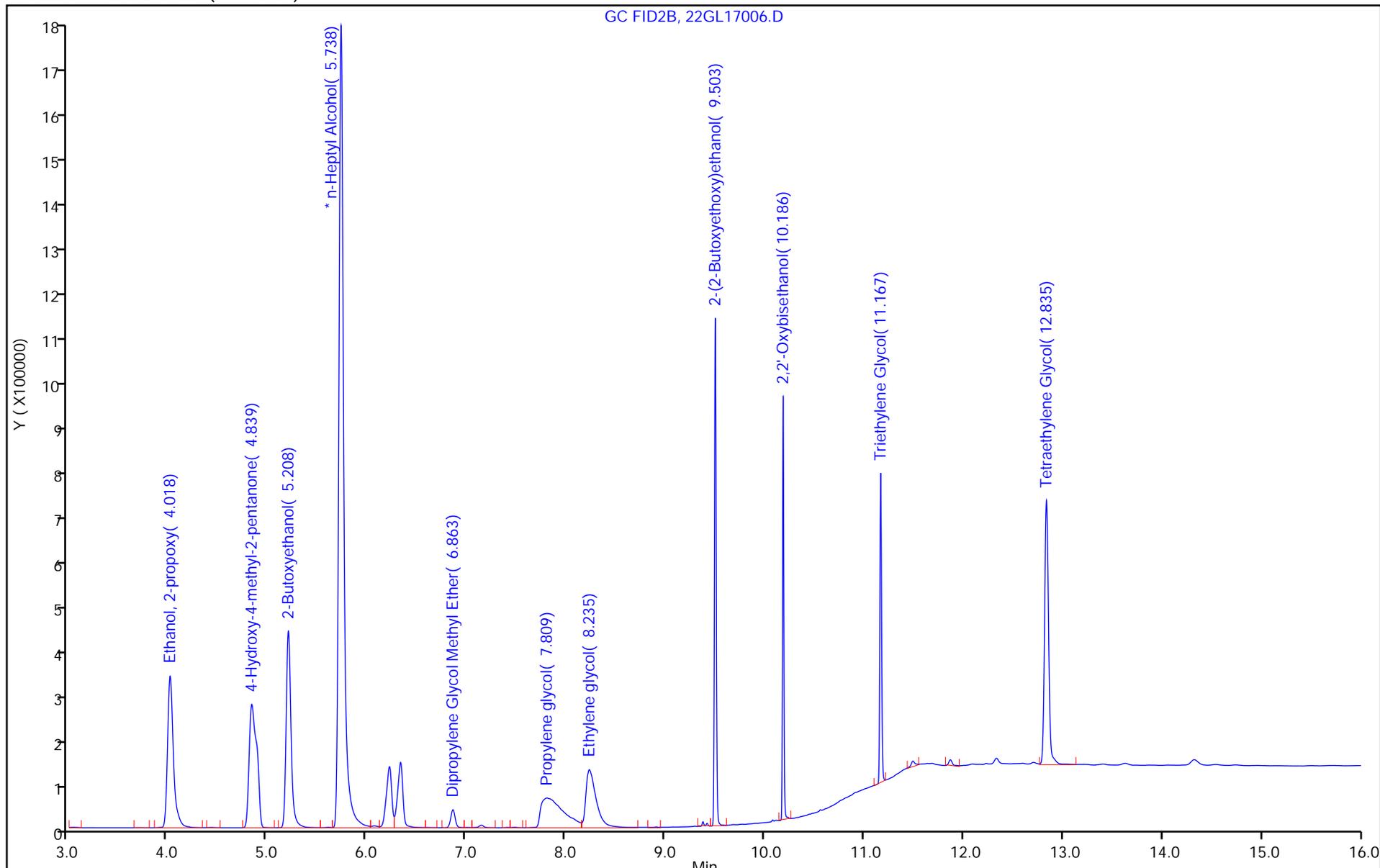
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 680-755698/24 Calibration Date: 12/18/2022 01:21  
 Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34  
 Lab File ID: 22GL17024.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.5186	0.5577		21.5	20.0	7.5	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.5430	0.5730		21.1	20.0	5.5	20.0
2-Butoxyethanol	Ave	0.5604	0.5971		21.3	20.0	6.6	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0399	0.0460		23.0	20.0	15.2	20.0
Propylene glycol	Ave	0.3406	0.3476		20.4	20.0	2.1	20.0
Ethylene glycol	Ave	0.3315	0.3217		19.4	20.0	-3.0	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.4963	0.5229		21.1	20.0	5.4	20.0
2,2'-Oxybisethanol	Ave	0.3183	0.3300		20.7	20.0	3.7	20.0
Triethylene Glycol	Lin2		0.2987		18.2	20.0	-9.2	20.0
Tetraethylene Glycol	Lin2		0.2256		27.7	40.0	-30.9*	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 680-755698/24 Calibration Date: 12/18/2022 01:21  
 Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34  
 Lab File ID: 22GL17024.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	4.02	3.94	4.10
4-Hydroxy-4-methyl-2-pentanone	4.85	4.75	4.94
2-Butoxyethanol	5.21	5.11	5.32
Dipropylene Glycol Methyl Ether	6.87	6.73	7.01
Propylene glycol	7.81	7.65	7.97
Ethylene glycol	8.25	8.08	8.41
2-(2-Butoxyethoxy)ethanol	9.51	9.32	9.70
2,2'-Oxybisethanol	10.19	9.98	10.39
Triethylene Glycol	11.17	10.95	11.39
Tetraethylene Glycol	12.84	12.58	13.10

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\22GL17024.D  
 Lims ID: ccv g3  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 18-Dec-2022 01:21:24 ALS Bottle#: 24 Worklist Smp#: 24  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082806-024  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 18-Dec-2022 10:32:39 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1606

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	4.020	4.020	0.000	1500917	20.0	21.5
2 4-Hydroxy-4-methyl-2-pentanone	4.847	4.847	0.000	1542294	20.0	21.1
3 2-Butoxyethanol	5.213	5.213	0.000	1607037	20.0	21.3
* 4 n-Heptyl Alcohol	5.743	5.743	0.000	6728487	50.0	50.0
5 Dipropylene Glycol Methyl Ether	6.870	6.870	0.000	123784	20.0	23.0
6 Propylene glycol	7.810	7.810	0.000	935588	20.0	20.4
7 Ethylene glycol	8.245	8.245	0.000	865717	20.0	19.4
8 2-(2-Butoxyethoxy)ethanol	9.505	9.505	0.000	1407368	20.0	21.1
9 2,2'-Oxybisethanol	10.187	10.187	0.000	888220	20.0	20.7
10 Triethylene Glycol	11.169	11.169	0.000	803911	20.0	18.2
11 Tetraethylene Glycol	12.839	12.839	0.000	1214374	40.0	27.7

**Reagents:**

SG\_Gly\_CAL\_00047 Amount Added: 10.00 Units: uL  
 SG\_GLY\_ISTD\_00099 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\22GL17024.D

Injection Date: 18-Dec-2022 01:21:24

Instrument ID: CVGG2

Operator ID:

Lims ID: ccv g3

Worklist Smp#: 24

Client ID:

Injection Vol: 1.0 ul

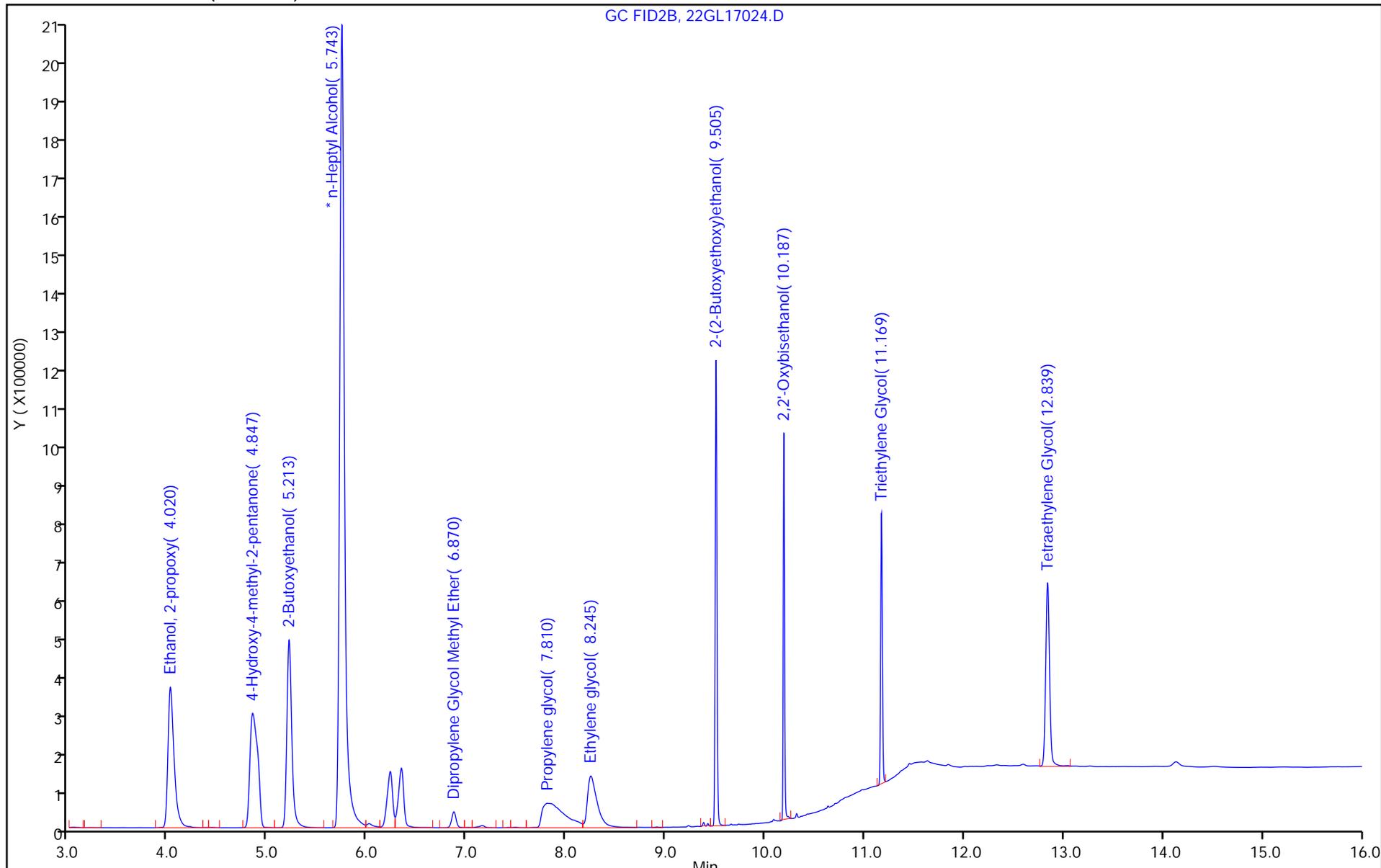
Dil. Factor: 1.0000

ALS Bottle#: 24

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 680-755535/13  
 Matrix: Water Lab File ID: 22GL16013.D  
 Analysis Method: 8015C GLY Date Collected: \_\_\_\_\_  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 12/16/2022 20:31  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Cleanup Factor: \_\_\_\_\_  
 Analysis Batch No.: 755535 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16013.D  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 16-Dec-2022 20:31:18 ALS Bottle#: 13 Worklist Smp#: 13  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082779-013  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 17-Dec-2022 10:58:31 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1633

First Level Reviewer: SWK1 Date: 17-Dec-2022 10:57:16

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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3 2-Butoxyethanol						
5.206	5.206	0.000	10024		0.1184	7
LOD = 0.5000						
* 4 n-Heptyl Alcohol						
5.745	5.738	0.007	7554663	50.0	50.0	
7 Ethylene glycol						
8.236	8.243	-0.007	2088		0.0417	7
LOD = 0.6600						

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

**Reagents:**

SG\_GLY\_ISTD\_00099 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16013.D

Injection Date: 16-Dec-2022 20:31:18

Instrument ID: CVGG2

Operator ID:

Lims ID: mb

Worklist Smp#: 13

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

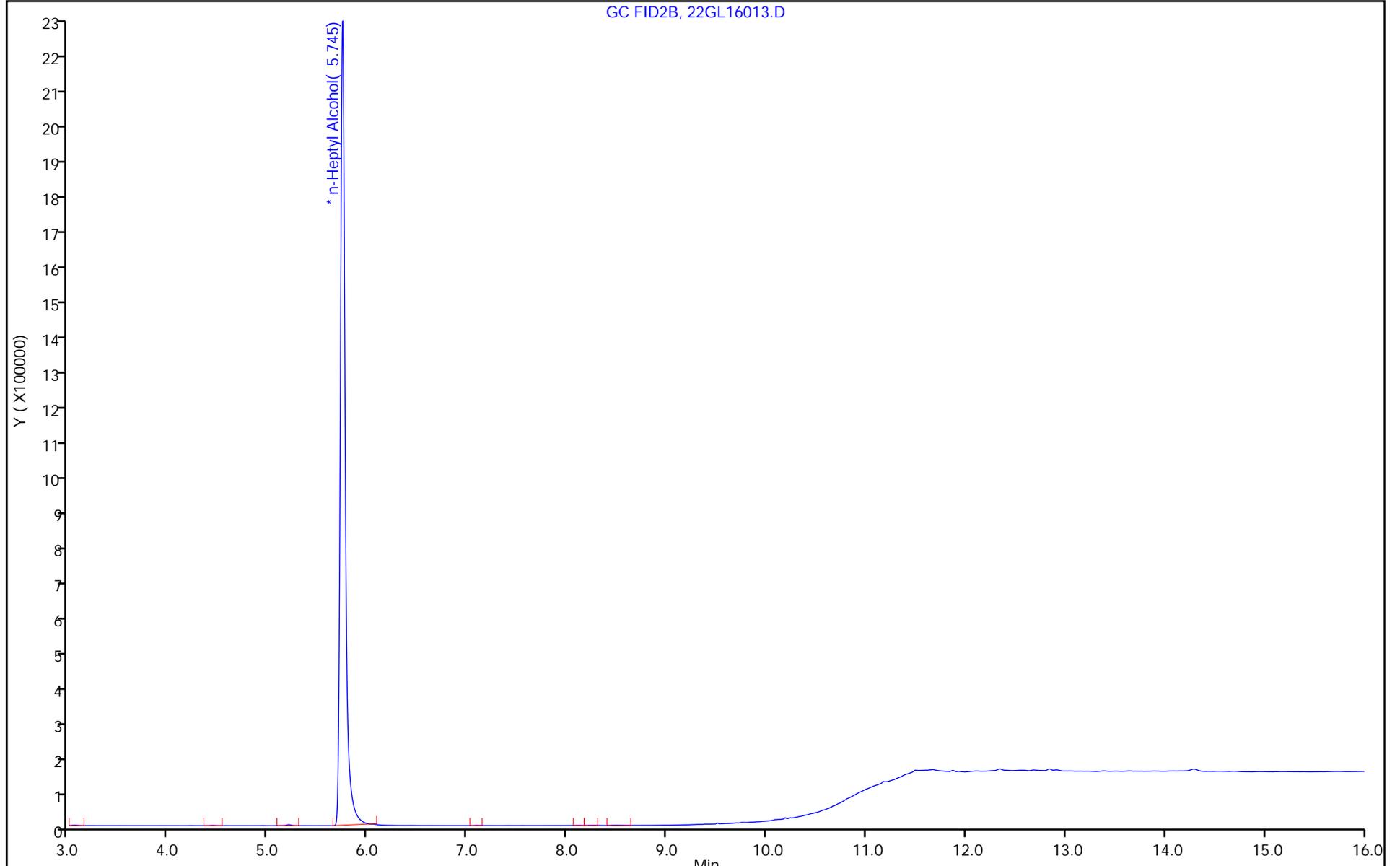
ALS Bottle#: 13

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)

GC FID2B, 22GL16013.D



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 680-755698/10  
 Matrix: Water Lab File ID: 22GL17010.D  
 Analysis Method: 8015C GLY Date Collected: \_\_\_\_\_  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 12/17/2022 19:59  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Cleanup Factor: \_\_\_\_\_  
 Analysis Batch No.: 755698 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\22GL17010.D  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 17-Dec-2022 19:59:17 ALS Bottle#: 10 Worklist Smp#: 10  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082806-010  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 18-Dec-2022 10:32:37 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1606

First Level Reviewer: SWK1 Date: 18-Dec-2022 10:31:30

RT (min.)	Exp RT (min.)	Diff RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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3 2-Butoxyethanol						
5.202	5.208	-0.006	9306		0.1102	7
LOD = 0.5000						
* 4 n-Heptyl Alcohol						
5.741	5.738	0.003	7536137	50.0	50.0	

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

**Reagents:**

SG\_GLY\_ISTD\_00099 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\22GL17010.D

Injection Date: 17-Dec-2022 19:59:17

Instrument ID: CVGG2

Operator ID:

Lims ID: mb

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

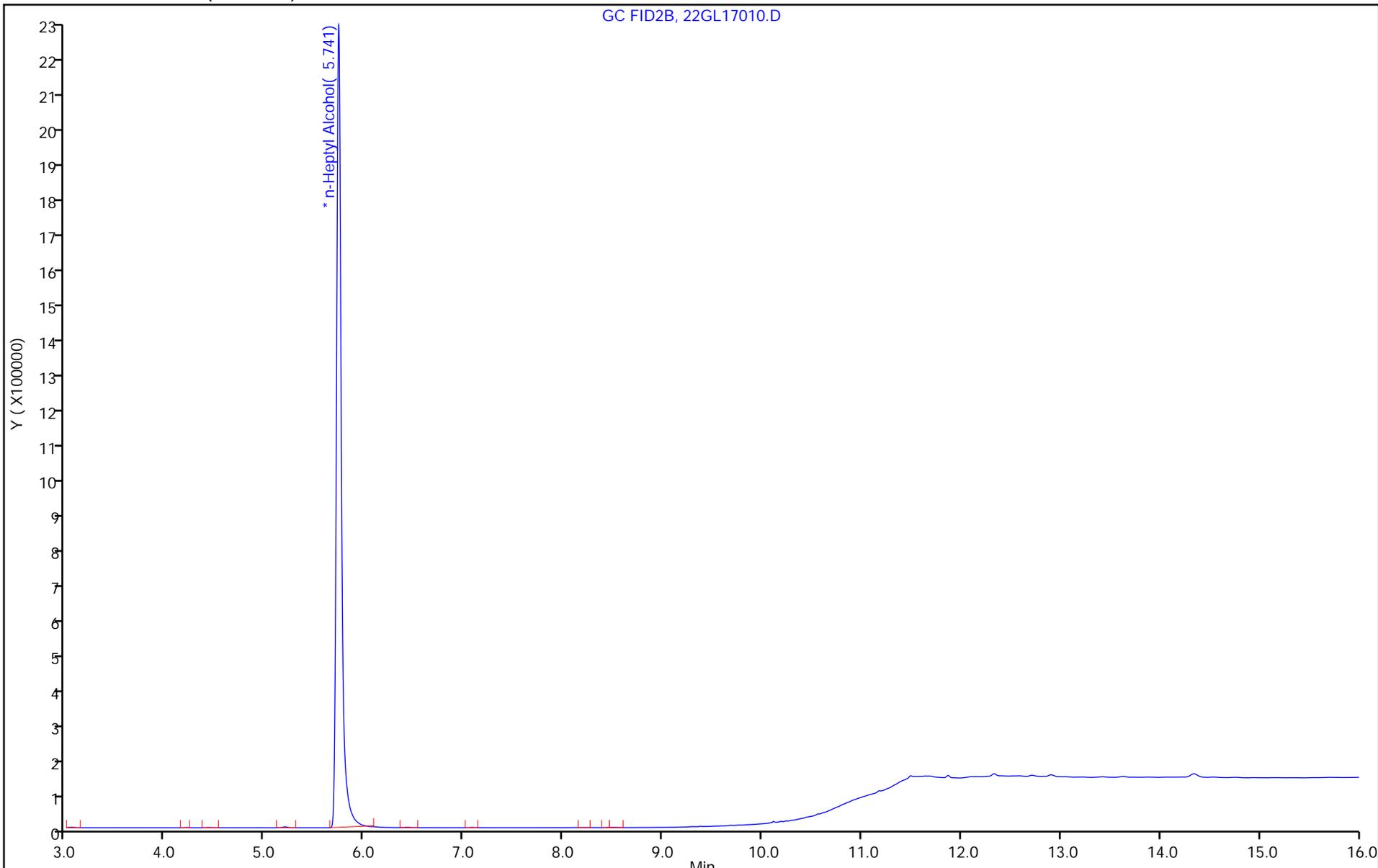
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 680-755535/6  
 Matrix: Water Lab File ID: 22GL16006.D  
 Analysis Method: 8015C GLY Date Collected: \_\_\_\_\_  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 12/16/2022 17:42  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Cleanup Factor: \_\_\_\_\_  
 Analysis Batch No.: 755535 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	22.3		5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16006.D  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 16-Dec-2022 17:42:55 ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082779-006  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 17-Dec-2022 11:05:40 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1633

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	4.010	4.011	-0.001	1352650	20.0	22.3
2 4-Hydroxy-4-methyl-2-pentanone	4.836	4.839	-0.003	1424145	20.0	22.4
3 2-Butoxyethanol	5.205	5.206	-0.001	1519344	20.0	23.2
* 4 n-Heptyl Alcohol	5.736	5.738	-0.002	5848652	50.0	50.0
5 Dipropylene Glycol Methyl Ether	6.862	6.863	-0.001	117782	20.0	25.2
6 Propylene glycol	7.831	7.837	-0.006	904233	20.0	22.7
7 Ethylene glycol	8.240	8.243	-0.003	877278	20.0	22.6
8 2-(2-Butoxyethoxy)ethanol	9.503	9.504	-0.001	1295464	20.0	22.3
9 2,2'-Oxybisethanol	10.185	10.185	0.000	799798	20.0	21.5
10 Triethylene Glycol	11.166	11.167	-0.001	832092	20.0	22.0
11 Tetraethylene Glycol	12.835	12.835	0.000	1562198	40.0	42.6

## Reagents:

SG\_GlyICV\_00056 Amount Added: 10.00 Units: uL  
 SG\_GLY\_ISTD\_00099 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16006.D

Injection Date: 16-Dec-2022 17:42:55

Instrument ID: CVGG2

Operator ID:

Lims ID: lcs

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

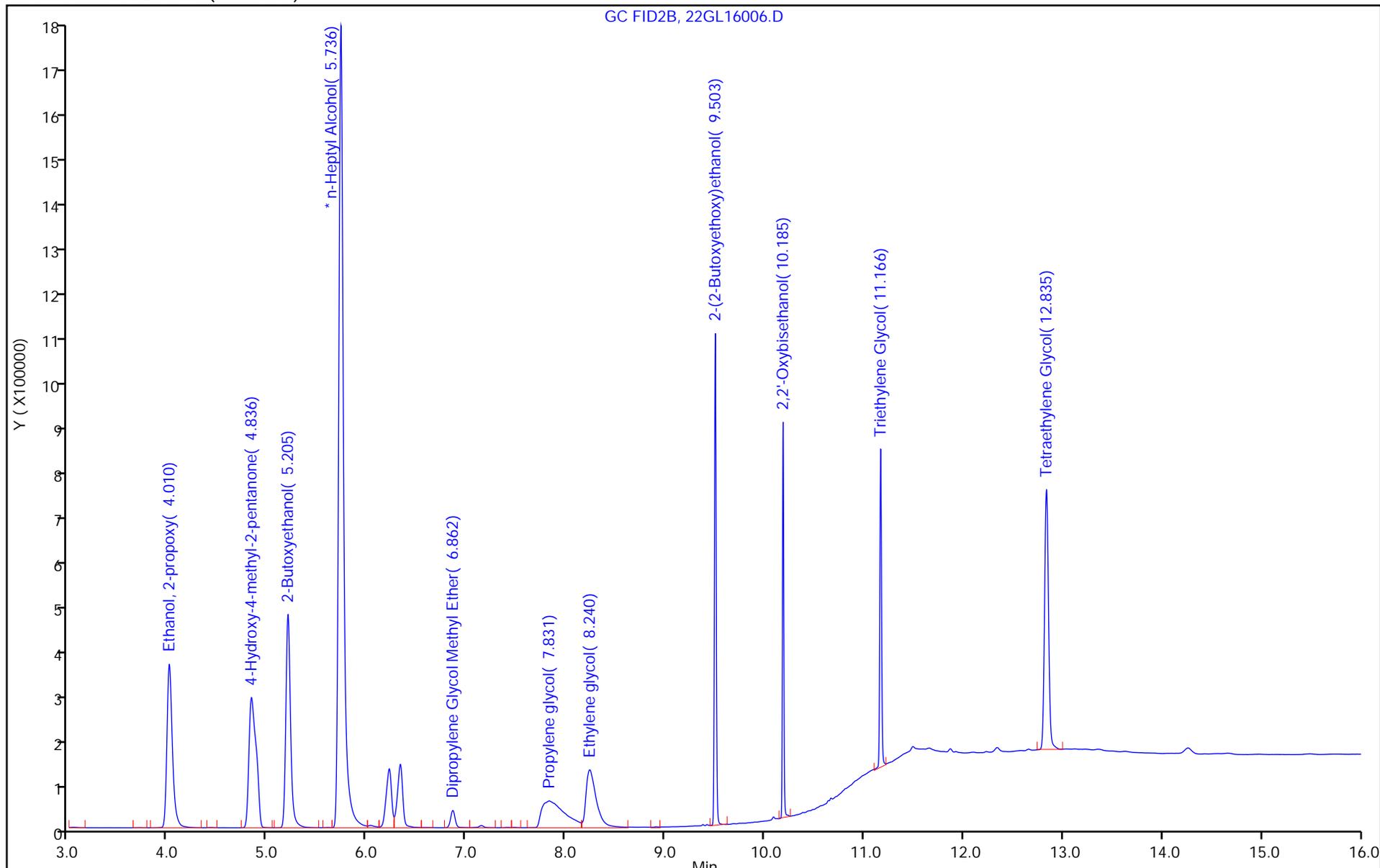
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 680-755698/1006  
 Matrix: Water Lab File ID: -22GL17006-LCS.d  
 Analysis Method: 8015C GLY Date Collected: \_\_\_\_\_  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 12/17/2022 18:28  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Cleanup Factor: \_\_\_\_\_  
 Analysis Batch No.: 755698 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	22.8		5.0	3.0	1.1

Eurofins Environment Testing America  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\22GL17006-LCS.d  
 Lims ID: LCS  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 17-Dec-2022 18:28:59 ALS Bottle#: 6 Worklist Smp#: 1006  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082806-006  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 18-Dec-2022 10:32:37 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1606

First Level Reviewer: SK9U

Date: 17-Dec-2022 19:57:50

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	4.018	4.018	0.000	1387563	20.0	22.0
2 4-Hydroxy-4-methyl-2-pentanone	4.839	4.839	0.000	1467608	20.0	22.2
3 2-Butoxyethanol	5.208	5.208	0.000	1492941	20.0	21.9
* 4 n-Heptyl Alcohol	5.738	5.738	0.000	6078535	50.0	50.0
5 Dipropylene Glycol Methyl Ether	6.863	6.863	0.000	123838	20.0	25.5
6 Propylene glycol	7.809	7.809	0.000	1022964	20.0	24.7
7 Ethylene glycol	8.235	8.235	0.000	910478	20.0	22.6
8 2-(2-Butoxyethoxy)ethanol	9.503	9.503	0.000	1373894	20.0	22.8
9 2,2'-Oxybisethanol	10.186	10.186	0.000	871421	20.0	22.5
10 Triethylene Glycol	11.167	11.167	0.000	821769	20.0	20.8
11 Tetraethylene Glycol	12.835	12.835	0.000	1619024	40.0	42.5

## QC Flag Legend

Processing Flags

Reagents:

SG\_GlyICV\_00056

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Environment Testing America

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\22GL17006-LCS.d

Injection Date: 17-Dec-2022 18:28:59

Instrument ID: CVGG2

Operator ID:  
Worklist Smp#: 1006

Lims ID: LCS

Client ID:

Injection Vol: 1.0 ul

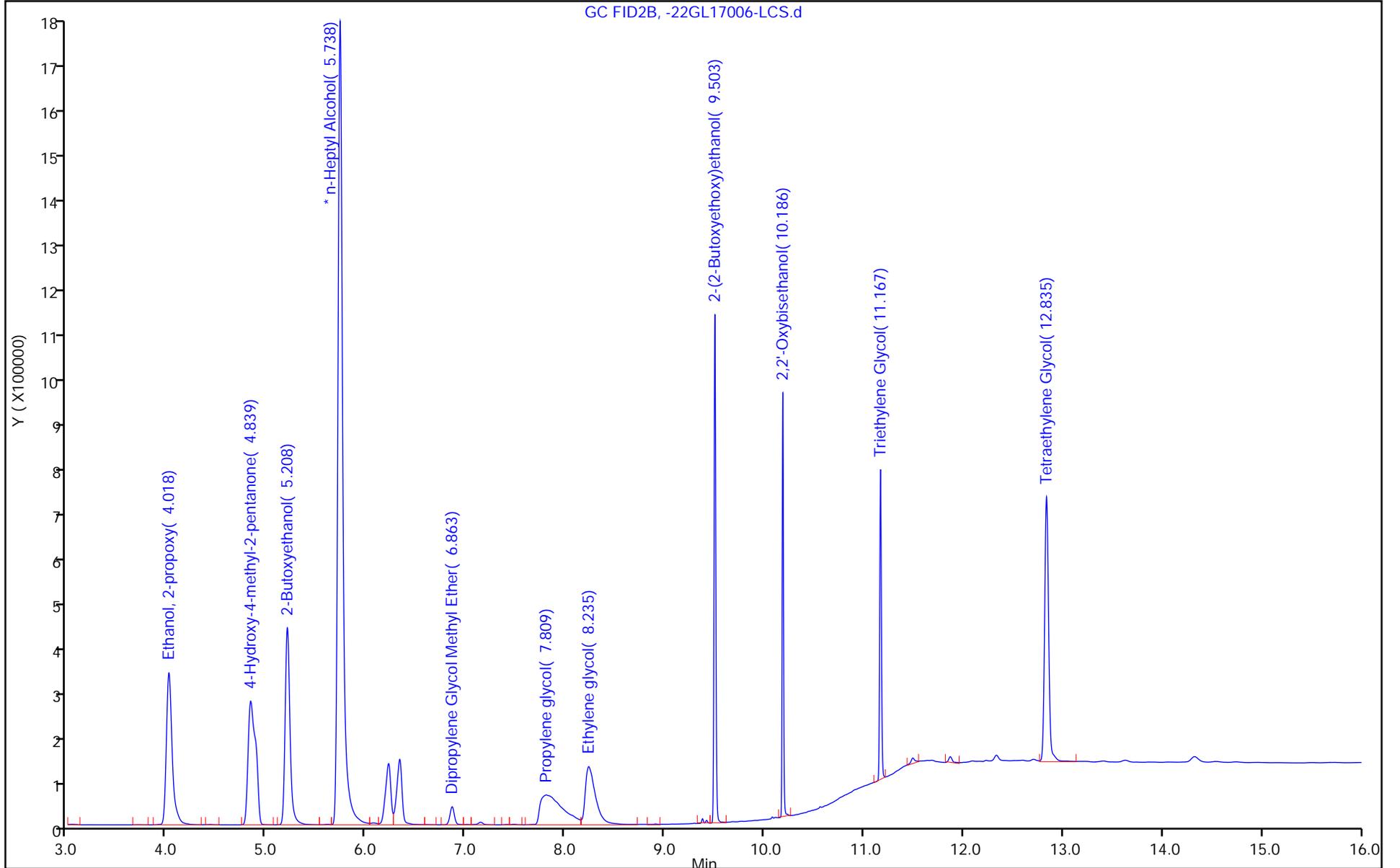
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 680-755535/7  
 Matrix: Water Lab File ID: 22GL16007.D  
 Analysis Method: 8015C GLY Date Collected: \_\_\_\_\_  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 12/16/2022 18:05  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Cleanup Factor: \_\_\_\_\_  
 Analysis Batch No.: 755535 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	23.8		5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16007.D  
 Lims ID: lcsd  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 16-Dec-2022 18:05:34 ALS Bottle#: 7 Worklist Smp#: 7  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082779-007  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 17-Dec-2022 11:05:40 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1633

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
--------------	------------------	------------------	----------	------------------	--------------------	-------

1 Ethanol, 2-propoxy	4.011	4.011	0.000	1374963	20.0	23.4
2 4-Hydroxy-4-methyl-2-pentanone	4.841	4.839	0.002	1447187	20.0	23.5
3 2-Butoxyethanol	5.206	5.206	0.000	1546495	20.0	24.4
* 4 n-Heptyl Alcohol	5.736	5.738	-0.002	5666050	50.0	50.0
5 Dipropylene Glycol Methyl Ether	6.863	6.863	0.000	120229	20.0	26.6
6 Propylene glycol	7.843	7.837	0.006	932107	20.0	24.1
7 Ethylene glycol	8.241	8.243	-0.002	911884	20.0	24.3
8 2-(2-Butoxyethoxy)ethanol	9.503	9.504	-0.001	1340429	20.0	23.8
9 2,2'-Oxybisethanol	10.186	10.185	0.001	843275	20.0	23.4
10 Triethylene Glycol	11.166	11.167	-0.001	882763	20.0	24.3
11 Tetraethylene Glycol	12.836	12.835	0.001	1630575	40.0	46.2

Reagents:

SG\_GlyICV\_00056 Amount Added: 10.00 Units: uL  
 SG\_GLY\_ISTD\_00099 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16007.D

Injection Date: 16-Dec-2022 18:05:34

Instrument ID: CVGG2

Operator ID:

Lims ID: lcsd

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

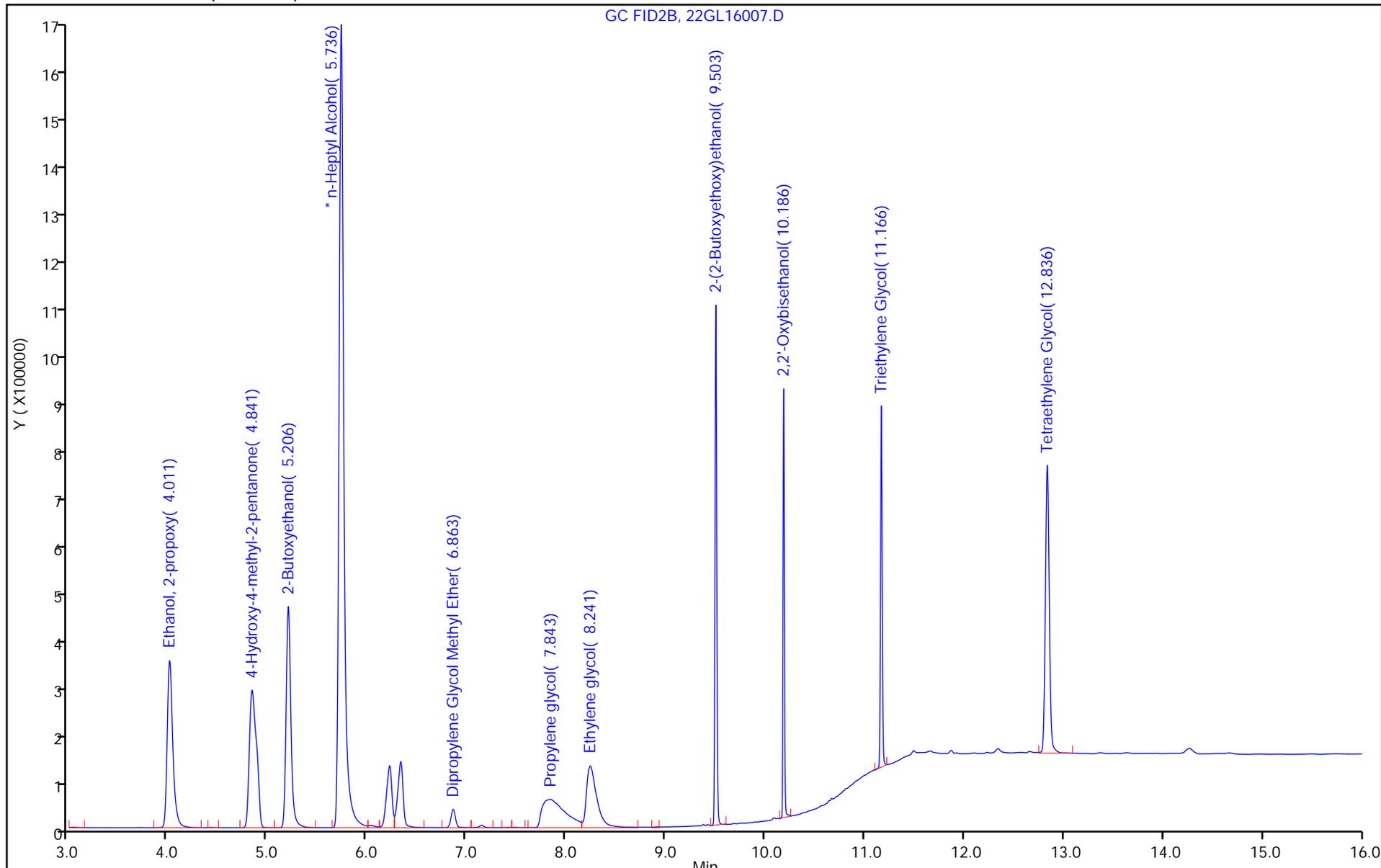
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-121247-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 680-755698/7  
 Matrix: Water Lab File ID: 22GL17007.D  
 Analysis Method: 8015C GLY Date Collected: \_\_\_\_\_  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 12/17/2022 18:51  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Cleanup Factor: \_\_\_\_\_  
 Analysis Batch No.: 755698 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	20.7		5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\22GL17007.D  
 Lims ID: lcsd  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 17-Dec-2022 18:51:36 ALS Bottle#: 7 Worklist Smp#: 7  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082806-007  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 18-Dec-2022 10:32:37 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1606

First Level Reviewer: SWK1 Date: 18-Dec-2022 10:31:02

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
4.022	4.018	0.004	1200021	20.0	20.9	
2 4-Hydroxy-4-methyl-2-pentanone						
4.844	4.839	0.005	1265816	20.0	21.1	
3 2-Butoxyethanol						
5.212	5.208	0.004	1276762	20.0	20.6	
* 4 n-Heptyl Alcohol						
5.739	5.738	0.001	5536898	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
6.865	6.863	0.002	102884	20.0	23.3	
6 Propylene glycol						
7.802	7.809	-0.007	914828	20.0	24.3	M
7 Ethylene glycol						
8.241	8.235	0.006	837779	20.0	22.8	M
8 2-(2-Butoxyethoxy)ethanol						
9.504	9.503	0.001	1137004	20.0	20.7	
9 2,2'-Oxybisethanol						
10.187	10.186	0.001	757095	20.0	21.5	
10 Triethylene Glycol						
11.167	11.167	0.000	685730	20.0	18.9	
11 Tetraethylene Glycol						
12.835	12.835	0.000	1317757	40.0	37.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG\_GlyICV\_00056

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221217-82806.b\22GL17007.D

Injection Date: 17-Dec-2022 18:51:36

Instrument ID: CVGG2

Operator ID:

Lims ID: lcsd

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

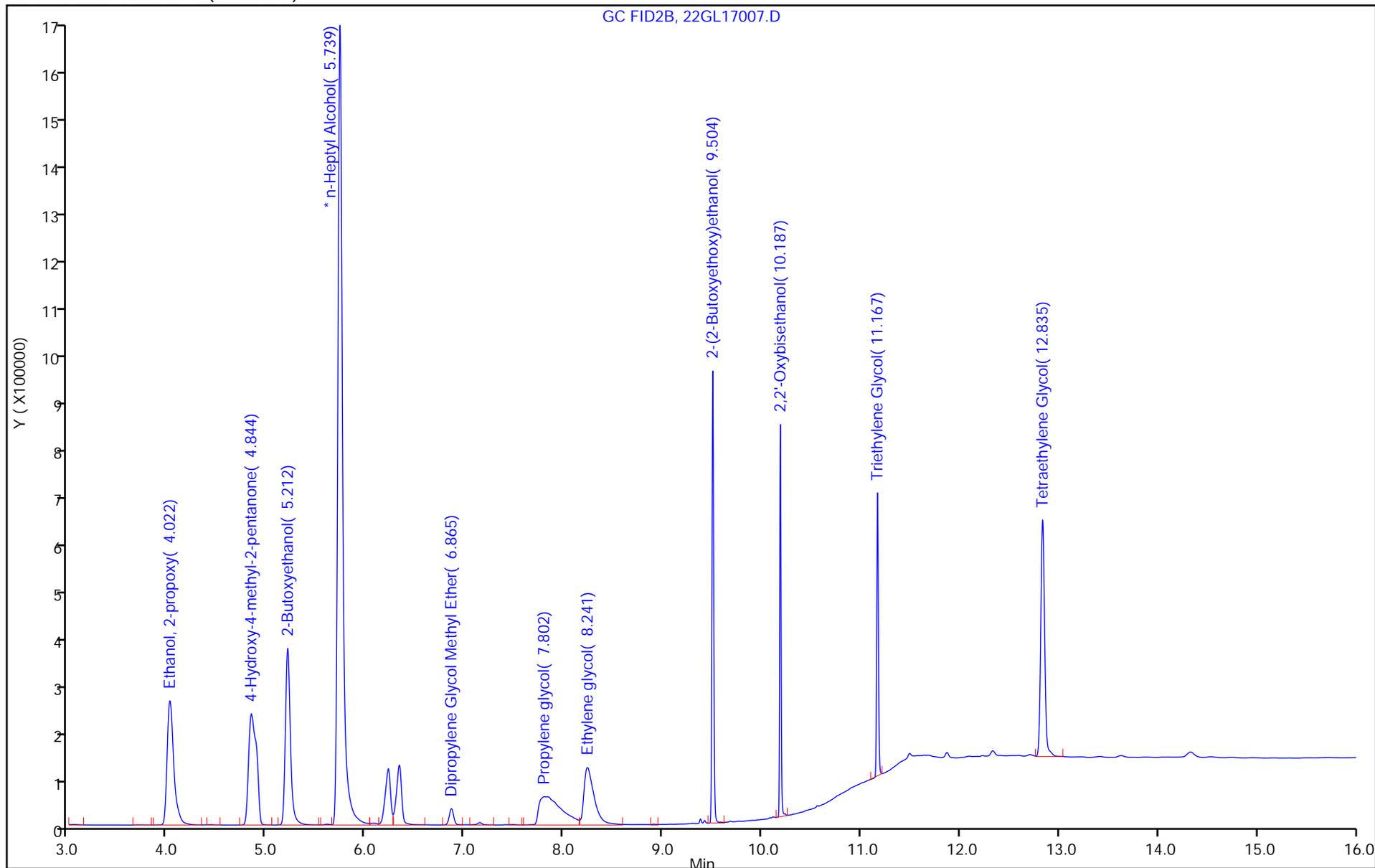
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)





Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16017.D  
 Lims ID: 580-121247-C-2 MS  
 Client ID:  
 Sample Type: MS  
 Inject. Date: 16-Dec-2022 22:01:28 ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082779-017  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 17-Dec-2022 10:58:31 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1633

First Level Reviewer: SWK1 Date: 17-Dec-2022 10:57:49

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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\* 4 n-Heptyl Alcohol  
 5.747 5.738 0.009 7007937 50.0 50.0

**QC Flag Legend**

Processing Flags

**Reagents:**

SG\_GLY\_ISTD\_00099 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16017.D

Injection Date: 16-Dec-2022 22:01:28

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-121247-C-2 MS

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

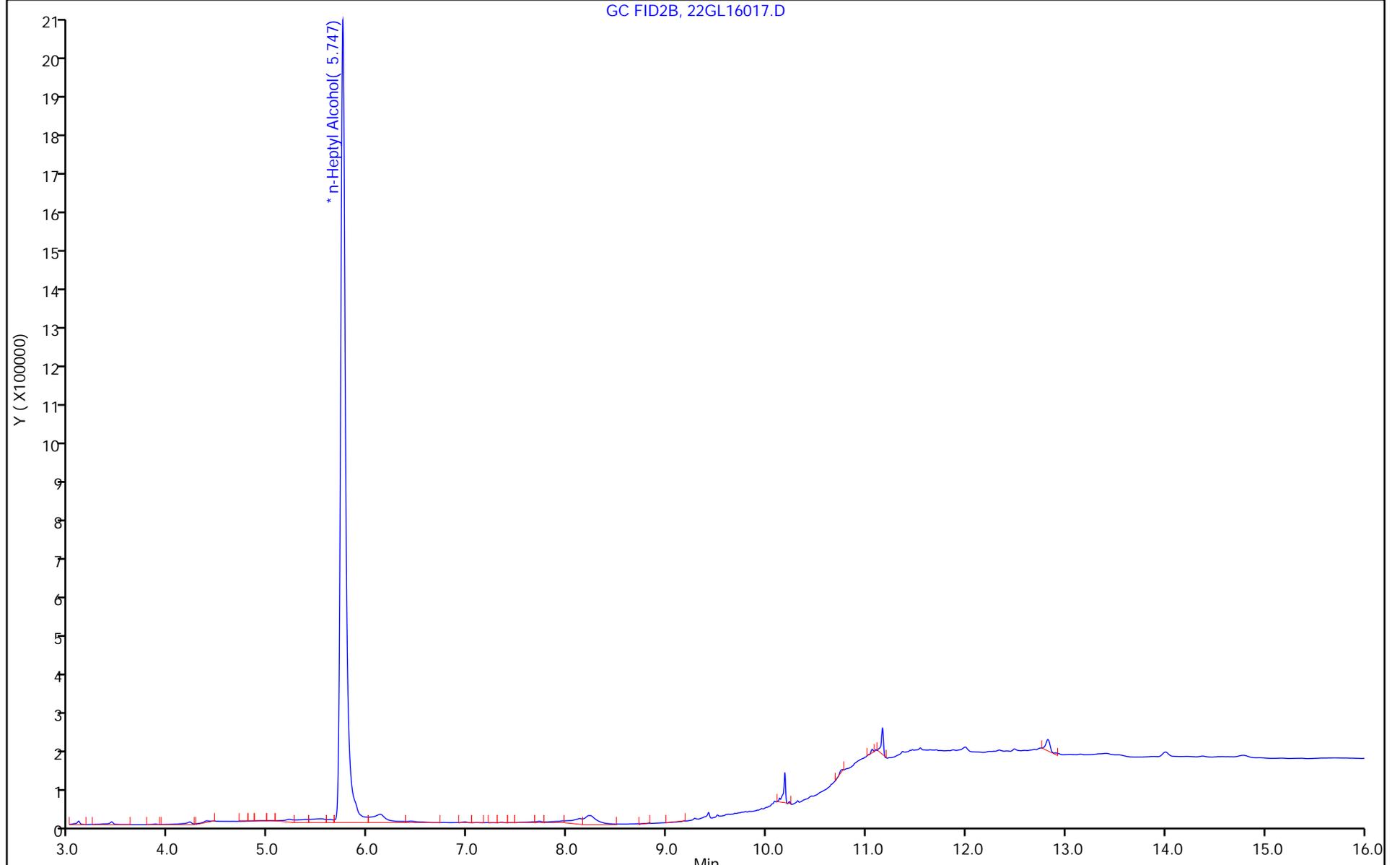
ALS Bottle#: 17

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)

GC FID2B, 22GL16017.D





Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16018.D  
 Lims ID: 580-121247-C-2 MSD  
 Client ID:  
 Sample Type: MSD  
 Inject. Date: 16-Dec-2022 22:23:56 ALS Bottle#: 18 Worklist Smp#: 18  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0082779-018  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 17-Dec-2022 10:58:31 Calib Date: 15-Dec-2022 15:34:13  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1633

First Level Reviewer: SWK1 Date: 17-Dec-2022 10:57:54

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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\* 4 n-Heptyl Alcohol  
 5.747 5.738 0.009 7588243 50.0 50.0

**QC Flag Legend**

Processing Flags

**Reagents:**

SG\_GLY\_ISTD\_00099 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16018.D

Injection Date: 16-Dec-2022 22:23:56

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-121247-C-2 MSD

Worklist Smp#: 18

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

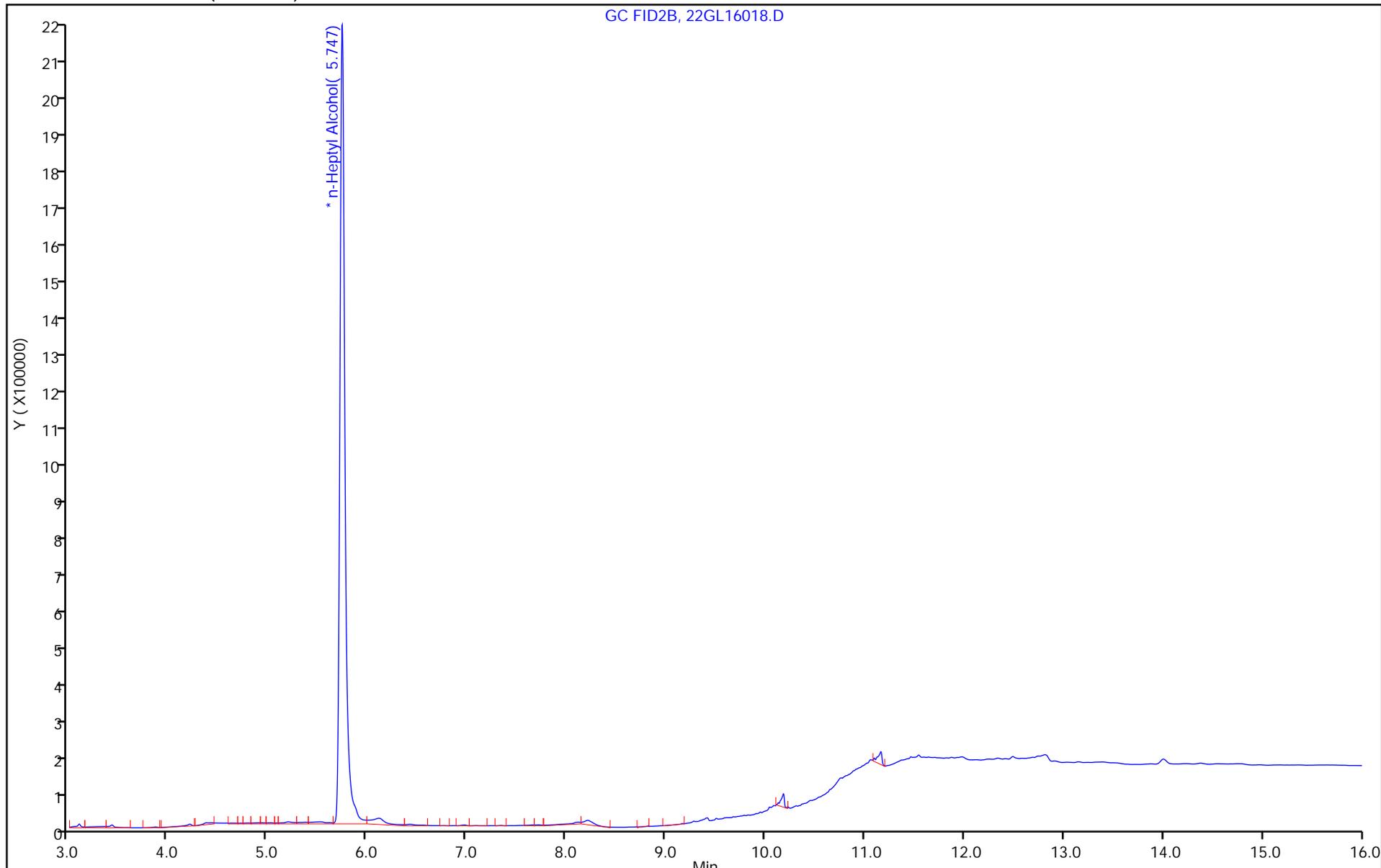
ALS Bottle#: 18

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)

GC FID2B, 22GL16018.D



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-121247-1

SDG No.: \_\_\_\_\_

Instrument ID: CVGG2 Start Date: 12/15/2022 13:40

Analysis Batch Number: 755296 End Date: 12/16/2022 01:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-755296/7		12/15/2022 13:40	1	22GL15007.D	J&W DB WAX 0.45 (mm)
IC 680-755296/8		12/15/2022 14:03	1	22GL15008.D	J&W DB WAX 0.45 (mm)
IC 680-755296/9		12/15/2022 14:26	1	22GL15009.D	J&W DB WAX 0.45 (mm)
ICIS 680-755296/10		12/15/2022 14:48	1	22GL15010.D	J&W DB WAX 0.45 (mm)
IC 680-755296/11		12/15/2022 15:11	1	22GL15011.D	J&W DB WAX 0.45 (mm)
IC 680-755296/12		12/15/2022 15:34	1	22GL15012.D	J&W DB WAX 0.45 (mm)
ICV 680-755296/13 CCV		12/15/2022 15:56	1	22GL15013.D	J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 16:19	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 16:42	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 18:00	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 18:23	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 19:31	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 19:53	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 20:16	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 20:39	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 21:01	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 21:24	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 21:46	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 22:09	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 22:31	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 22:54	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 23:17	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 23:39	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 00:02	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 00:25	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 00:47	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 01:10	1		J&W DB WAX 0.45 (mm)
CCV 680-755296/39		12/16/2022 01:55	1		J&W DB WAX 0.45 (mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-121247-1

SDG No.: \_\_\_\_\_

Instrument ID: CVGG2 Start Date: 12/16/2022 17:20

Analysis Batch Number: 755535 End Date: 12/17/2022 02:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 680-755535/5		12/16/2022 17:20	1	22GL16005.D	J&W DB WAX 0.45 (mm)
LCS 680-755535/6		12/16/2022 17:42	1	22GL16006.D	J&W DB WAX 0.45 (mm)
LCSD 680-755535/7		12/16/2022 18:05	1	22GL16007.D	J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 19:00	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 19:23	1		J&W DB WAX 0.45 (mm)
MB 680-755535/13		12/16/2022 20:31	1	22GL16013.D	J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 20:53	1		J&W DB WAX 0.45 (mm)
580-121247-2	AF-RHMW06-WGN01B-2212 W1	12/16/2022 21:16	1	22GL16015.D	J&W DB WAX 0.45 (mm)
580-121247-3	AF-RHMW06-WQEB01-2212 W1	12/16/2022 21:38	1	22GL16016.D	J&W DB WAX 0.45 (mm)
580-121247-2 MS	AF-RHMW06-WGN01B-2212 W1 MS	12/16/2022 22:01	1	22GL16017.D	J&W DB WAX 0.45 (mm)
580-121247-2 MSD	AF-RHMW06-WGN01B-2212 W1 MSD	12/16/2022 22:23	1	22GL16018.D	J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 22:46	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 23:09	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 23:31	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 23:54	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/17/2022 00:16	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/17/2022 00:39	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/17/2022 01:01	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/17/2022 01:24	1		J&W DB WAX 0.45 (mm)
CCV 680-755535/28		12/17/2022 02:09	1	22GL16028.D	J&W DB WAX 0.45 (mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-121247-1

SDG No.: \_\_\_\_\_

Instrument ID: CVGG2 Start Date: 12/17/2022 18:28

Analysis Batch Number: 755698 End Date: 12/18/2022 01:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 680-755698/6		12/17/2022 18:28	1	22GL17006.D	J&W DB WAX 0.45 (mm)
LCS 680-755698/1006		12/17/2022 18:28	1	-22GL17006-LCS.d	J&W DB WAX 0.45 (mm)
LCSD 680-755698/7		12/17/2022 18:51	1	22GL17007.D	J&W DB WAX 0.45 (mm)
MB 680-755698/10		12/17/2022 19:59	1	22GL17010.D	J&W DB WAX 0.45 (mm)
ZZZZZ		12/17/2022 20:45	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/17/2022 21:07	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/17/2022 21:36	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/17/2022 21:58	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/17/2022 22:21	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/17/2022 22:43	1		J&W DB WAX 0.45 (mm)
580-121247-1	AF-RHMW16-WGN01B-2212W1	12/17/2022 23:06	1	22GL17018.D	J&W DB WAX 0.45 (mm)
580-121247-4	AF-RHMW10-WGN01B-2212W1	12/17/2022 23:28	1	22GL17019.D	J&W DB WAX 0.45 (mm)
580-121247-5	AF-RHMW12A-WGN01B-2212W1	12/17/2022 23:51	1	22GL17020.D	J&W DB WAX 0.45 (mm)
ZZZZZ		12/18/2022 00:13	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/18/2022 00:36	1		J&W DB WAX 0.45 (mm)
CCV 680-755698/24		12/18/2022 01:21	1	22GL17024.D	J&W DB WAX 0.45 (mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-121247-1

SDG No.: \_\_\_\_\_

Batch Number: 755296 Batch Start Date: 12/15/22 13:40 Batch Analyst: Kellar, Joshua C

Batch Method: 8015C GLY Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SG_Gly_CAL 00047	SG_GLY_ISTD 00099	SG_GlyICV 00056		
IC 680-755296/7		8015C GLY		1 mL	50 uL	10 uL			
IC 680-755296/8		8015C GLY		1 mL	40 uL	10 uL			
IC 680-755296/9		8015C GLY		1 mL	25 uL	10 uL			
ICIS 680-755296/10		8015C GLY		1 mL	10 uL	10 uL			
IC 680-755296/11		8015C GLY		1 mL	5 uL	10 uL			
IC 680-755296/12		8015C GLY		1 mL	2.5 uL	10 uL			
ICV 680-755296/13 CCV		8015C GLY		1 mL		10 uL	10 uL		

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-121247-1

SDG No.: \_\_\_\_\_

Batch Number: 755535 Batch Start Date: 12/16/22 17:20 Batch Analyst: Kellar, Joshua C

Batch Method: 8015C GLY Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SG_Gly_CAL 00047	SG_GLY_ISTD 00099	SG_GlyICV 00056		
CCV 680-755535/5		8015C GLY		1 mL	10 uL	10 uL			
LCS 680-755535/6		8015C GLY		1 mL		10 uL	10 uL		
LCSD 680-755535/7		8015C GLY		1 mL		10 uL	10 uL		
MB 680-755535/13		8015C GLY		1 mL		10 uL			
580-121247-C-2	AF-RHMW06-WGN01B -2212W1	8015C GLY	T	1 mL		10 uL			
580-121247-C-3	AF-RHMW06-WQEB01 -2212W1	8015C GLY	T	1 mL		10 uL			
580-121247-C-2 MS	AF-RHMW06-WGN01B -2212W1	8015C GLY	T	1 mL	10 uL	10 uL			
580-121247-C-2 MSD	AF-RHMW06-WGN01B -2212W1	8015C GLY	T	1 mL	10 uL	10 uL			
CCV 680-755535/28		8015C GLY		1 mL	10 uL	10 uL			

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-121247-1

SDG No.: \_\_\_\_\_

Batch Number: 755698 Batch Start Date: 12/17/22 18:28 Batch Analyst: Kellar, Joshua C

Batch Method: 8015C GLY Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SG_Gly_CAL 00047	SG_GLY_ISTD 00099	SG_GlyICV 00056		
CCVIS 680-755698/6		8015C GLY		1 mL		10 uL	10 uL		
LCSD 680-755698/7		8015C GLY		1 mL		10 uL	10 uL		
MB 680-755698/10		8015C GLY		1 mL		10 uL			
580-121247-C-1	AF-RHMW16-WGN01B -2212W2	8015C GLY	T	1 mL		10 uL			
580-121247-C-4	AF-RHMW10-WGN01B -2212W2	8015C GLY	T	1 mL		10 uL			
580-121247-C-5	AF-RHMW12A-WGN01 B-2212W2	8015C GLY	T	1 mL		10 uL			
CCV 680-755698/24		8015C GLY		1 mL	10 uL	10 uL			
LCS 680-755698/1006		8015C GLY		1 mL		10 uL	10 uL		

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Subcontract Data

# Shipping and Receiving Documents





**Eurofins FGS, Seattle**

5755 8th Street East  
Tacoma, WA 98424

**Chain of Custody Record**

<b>Client Information</b>		Sampler: <i>Andy Young</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: 2212W2EU-02		
Client Contact:		Phone: <i>402-871-5712</i>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1		
Company: AECOM				PWSID		<b>Analysis Requested</b>				
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8016C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol <del>ASFS</del> <del>12/11/22</del>		Total Number of containers 3		Preservation Codes: A - HCL                      M - Hexane B - NaOH                    N - None C - Zn Acetate              O - AsNaO2 D - Nitric Acid              P - Na2O4S E - NaHSO4                  Q - Na2SO3 F - MeOH                     R - Na2S2O3 G - Amchlor                S - H2SO4 H - Ascorbic Acid          T - TSP Dodecahydrate I - Ice                         U - Acetone J - DI Water                 V - MCAA K - EDTA                    W - pH 4-5 L - EDA                      Z - other (specify)		
City: Honolulu		TAT Requested (days): <b>Rush - ASAP</b>								
State Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								
Phone: 808-954-4512 / 808-356-5311		PO #:								
Email: Watson Tanji (watson.tanji@aecom.com) / Brant Landers (brant.landiers@aecom.com)		WO #:								
Project Name: CTO N6274223F0104		Project #: 60697810		Special Instructions/Note: Store ALL samples until notified by client to dispose		Other:				
Site: RHSF		SSOW#:								
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, As=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Preservation Code.		
<del>AF-RHMW10-WGN01B-2212W2</del>		<del>12/11/22</del>	<del>1335</del>	<del>G</del>	<del>W</del>	<del>N</del>	<del>N</del>	<del>X</del>	<del>A</del>	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested I II III IV, Other (specify)		Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQUIS FDD.		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:				
Relinquished by: <i>Andy Young ASFS</i>		Date/Time: <i>12/11/22 1500</i>		Company: AECOM		Received by: <i>GABRIEL ALLEN</i>		Date/Time: <i>12-12-22 1340</i>		Company: AECOM
Relinquished by: <i>GABRIEL ALLEN</i>		Date/Time: <i>12/14/22 1345</i>		Company: AECOM		Received by: <i>[Signature]</i>		Date/Time: <i>12/14/22 1020</i>		Company:
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>5.1/5.1</i>						

12/29/2023 6:17 PM



<b>Client Information</b>		Sample: <i>Christina Nordlie</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): 2212W2EU-03	
Client Contact:		Phone: 252 2575793		E-Mail: M.Elaine.Walker@EurofinsET.com		Page: Page 1 of 1	
Company: AECOM		Address: 1001 Bishop St. Suite 1600		City: Honolulu		Job #:	
State, Zip: Hawaii 96813		Phone: 808-954-4512 / 808-356-5311		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Due Date Requested: see subcontract	
Email: Watson.Tanji@aecom.com / Brant.Landers@aecom.com		Project #: 60697810		WO #:		TAT Requested (days): Rush - ASAP	
CTO N6274223F0104		Site: RH5F		Sample Date: 12-10-22		Sample Time: 1530	
Sample Identification		Sample Type (C=comp, G=grab)		Sample Time		Sample Date	
AF-RHMW16-WGND1B-2212W2		G		1530		12-10-22	
Matrix (Water, Solid, Other/Soil, etc.)		Preservation Code: W		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
				N		N	
Possible Hazard Identification		Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/>		Radiological <input type="checkbox"/>		6015C_DAI_GL_DS/2-(2-butylethoxy)-ethanol	
Deliverable Requested I II III, IV Other (specify)		Empty Kit Relinquished by		Date		Total Number of containers	
						3	
Special Instructions/Note:		Special Instructions/QC Requirements DOD QSM project.		Special Instructions/QC Requirements DOD QSM project.		Special Instructions/Note:	
Store ALL samples until notified by client to dispose		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		580-121247 Chain of Custody	
Relinquished by: <i>Christina Nordlie</i>		Date/Time: 12-10-22 1700		Company: AECOM		Received by: <i>GABRIEL ALLEN</i>	
Relinquished by: <i>GABRIEL ALLEN</i>		Date/Time: 12-12-22 1340		Company: AECOM		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time: 12-12-22 1030		Company:		Received by:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 5.1/5.1		Date/Time: 12/15/21	





